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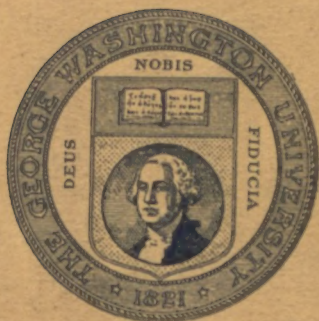
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CATALOGUE NUMBER

MARCH 1914



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JUNE, OCTOBER, AND DECEMBER

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THE
GEORGE WASHINGTON UNIVERSITY
BULLETIN

CATALOGUE NUMBER

MARCH 1914

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1914

THE

GEORGE WASHINGTON UNIVERSITY

BULLETIN

CATALOGUE NUMBER

MARCH 1911

WILLIAM S. PETERSON CO.
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PART I
GENERAL AND HISTORICAL

GENERAL AND HISTORICAL
PART I

1914							1915													
JULY							JANUARY							JULY						
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12	13	14	15	16	17	18	10	11	12	13	14	15	16	11	12	13	14	15	16	17
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AUGUST							FEBRUARY							AUGUST						
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SEPTEMBER							MARCH							SEPTEMBER						
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NOVEMBER							MAY							NOVEMBER						
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22	23	24	25	26	27	28	16	17	18	19	20	21	22	21	22	23	24	25	26	27
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DECEMBER							JUNE							DECEMBER						
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27	28	29	30	31	27	28	29	30	26	27	28	29	30	31	..
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UNIVERSITY CALENDAR

1914

June 10 *Wednesday.*—University Commencement.

SUMMER VACATION

September 30 *Wednesday.*—Academic Year begins in all Departments of the University.
 October 14 *Wednesday.*—Stated meeting of the Board of Trustees.
 November 26-28 *Thursday to Saturday,* both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1914, TO JANUARY 3, 1915, BOTH INCLUSIVE

1915

January 13 *Wednesday.*—Stated meeting of the Board of Trustees.
 January 25 *Monday.*—Last day on which theses may be presented.
 February 1 *Monday.*—Second Term begins.
 February 8 *Monday.*—Doctorate Disputation.
 February 22 *Monday.*—A holiday in all Departments of the University. Winter Convocation.
 April 2-5 *Friday to Monday,* both inclusive.—Easter holidays.
 April 6 *Tuesday.*—Davis Prize Speaking.
 May 1 *Saturday.*—Last day on which theses may be presented.
 May 17 *Monday.*—Doctorate Disputation.
 May 24-27 *Monday to Thursday.*—Examinations for admission.
 May 31 *Monday.*—A holiday in all Departments of the University.
 June 2 *Wednesday.*—Annual meeting of the Board of Trustees.
 June 6 *Sunday.*—Baccalaureate Sermon.
 June 9 *Wednesday.*—University Commencement.

THE LEGAL HISTORY OF THE CORPORATION

The George Washington University is the successor of the "Columbian College in the District of Columbia," which was chartered by Act of Congress in 1821. The name and title of the Columbian College were in 1873 changed by an Act of Congress, under the terms of which the College was given the name of the "Columbian University." The Columbian University was by Act of Congress in 1904 authorized to change its name, subject to the approval of the Secretary of the Interior and the Commissioner of Education. The Board of Trustees elected to take the name of "The George Washington University," and the name was approved by the government officials, as required by the statute; the change of name going into effect September 1, 1904. All the Acts of Congress now in force relative to the Columbian College and the Columbian University are therefore parts of the charter of The George Washington University. The original charter of the Columbian College was as follows:

An Act to Incorporate the Columbian College, in the District of Columbia

Be it enacted, &c., That there be erected, and hereby is erected and established, in the District of Columbia, a College, for the sole and exclusive purpose of educating youth in the English, learned, and foreign languages, the liberal arts, sciences, and literature; the style and title of which shall be, and hereby is declared to be, the "Columbian College in the District of Columbia."

SEC. 2. *And be it further enacted,* That the said College shall be under the management, direction, and government of a number of Trustees, not exceeding thirty-one, to be elected triennially, by the contributors to the said College, qualified to vote, in such manner, and under such limitations and restrictions, as may be provided by the ordinances of the College, on the first Monday in May; and that the first Trustees of the said College shall consist of the following persons, viz: Obadiah B. Brown, Luther Rice, Enoch Reynolds, Josiah Meigs, Spencer H. Cone, Daniel Brown, Return J. Meigs, Joseph Gibson, Joseph Cone, Thomas Corcoran, Burgis Allison, Thomas Sewall, and Joseph Thaw: which said Trustees, and their successors, shall forever hereafter be, and they are hereby declared to be, one body politic and corporate, with perpetual succession, in deed and in law, to all intents and purposes whatsoever, by the name, style and title of the "Columbian College in the District of Columbia;" by which name and title, they, the said Trustees, and their successors, shall be competent and capable, at law and in equity, to take to themselves and their successors, for the use of the said College, any estate, in any messuage, lands, tenements, hereditaments, goods, chattels, moneys, and other effects, by gift, grant, bargain, sale, conveyance, assurance, will, devise, or bequest, of any person or persons whatsoever: *Provided,* The same do not exceed, in the whole, the yearly

value of twenty-five thousand dollars; and the same messuages, lands, tenements, hereditaments, and estate, real and personal, to grant, bargain, sell, convey, assure, demise, and to farm, let, and place out on interest, for the use of the said College, in such manner as to them, or at least nine of them, shall seem most beneficial to the institution, and to receive the rents, issues, and profits, income and interest, of the same, and to apply the same to the proper use and benefit of the said College; and by the same name to sue, commence, prosecute, and defend, implead and be impleaded, in any courts of law and equity, and in all manner of suits and actions whatsoever, and generally, by and in the same name, to do and transact all and every the business touching or concerning the premises.

SEC. 3. *And be it further enacted*, That the said Trustees shall cause to be made for their use one common seal, with such devices and inscriptions thereon as they shall think proper, under and by which all deeds, diplomas, certificates, and acts of the said College, shall pass and be authenticated; and the same seal, at their pleasure, to break and devise a new one.

SEC. 4. *And be it further enacted*, That the said Trustees, or five of them at least, shall meet at the College, on College Hill, in the said District of Columbia, on the first Monday in March next, for the purpose of concerting and agreeing to such business as, in consequence of this Act, shall be proper to be laid before them at the commencement of the work they have undertaken, and shall have power to adjourn from time to time, as they shall see cause, to any other times or places, for the purpose of perfecting the same. That there shall be a stated meeting of the said Trustees held twice in every year at least, at such place and time as the said Trustees, or a quorum thereof, shall appoint, of which public notice shall be given, after the first meeting, at least twenty days before [the] time of such intended meeting, whenever the President, to be appointed by them, shall deem the business of the institution to require the same, and give due notice thereof, which he is hereby authorized to do; and if, at such stated or occasional meetings, five of the said Trustees shall not be present, those of them who shall be present shall have power to adjourn the meeting to any other day, as fully and effectually, to all intents and purposes, as if the whole number of Trustees for the time being were present; but, if five or more of the said Trustees shall meet at the said appointed times, or at any other time of adjournment, then such five of the said Trustees shall be a board or quorum, and a majority of the votes of them shall be capable of doing and transacting all the business and concerns of the said College not otherwise provided for by this Act; and particularly of making and enacting ordinances for the government of the said College; of electing and appointing the President, Professors, and Tutors, for the said College; of agreeing with them for their salaries and stipends, and removing them for misconduct, or breach of the laws of the institution; of appointing committees of their own body to carry into execution all and every the resolutions of the Board; of appointing a President, Treasurer, Secretary, stewards, managers, and other necessary and customary officers, for taking care of the estate and managing the concerns of the corporation; and, generally, a majority of voices of the board, or quorum of the said Trustees, consisting of five persons at least, at any semi-annual, occasional, or adjourned meeting, after notice, given as aforesaid, shall determine all matters and things (although the same be not herein particularly mentioned) which shall occasionally arise, and be incidentally necessary to be determined and transacted by the said Trustees *Provided always*, That no ordinances shall be of force which shall be repugnant to this charter, or to the laws of the District of Columbia.

SEC. 5. *And be it further enacted*, That the head or Chief Master for the said College shall be called and styled the "President," and the Masters thereof shall be called "Professors and Tutors;" but neither President, Professors, or Tutors, while they remain such, shall ever be capable of the office of Trustee.

SEC. 6. *And be it further enacted*, That the President, Professors and Tutors, or a majority of them, shall be called and styled the "Faculty of the College," which Faculty shall have the power of enforcing the rules and regulations adopted by the Trustees for the government of the pupils, by rewarding or censuring them, and finally, by suspending such of them who as after repeated admonitions shall continue disobedient and refractory, until a determination of a quorum of the Trustees can be had; and of granting and confirming, by and with the approbation and consent of a board of the Trustees, signified by their mandamus, such degrees in the liberal arts and sciences, to such pupils of the institution or others, who, by their proficiency in learning, or other meritorious distinction, they shall think entitled to them, as are usually granted and conferred in colleges; and to grant to such graduates, diplomas or certificates, under their common seal, and signed by the Faculty, to authenticate and perpetuate the memory of such graduation.

SEC. 7. *And be it further enacted*, That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor, or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion.

SEC. 8. *And be it further enacted*, That no misnomer of the said corporation shall defeat or annul any gift, grant, devise, or bequest, to or from the said corporation: *Provided*, The intent of the parties shall sufficiently appear upon the face of the gift, grant, will, or other writing, whereby any estate or interest was intended to pass to or from the said corporation.

SEC. 9. *And be it further enacted*, That the constitution of the said College, herein and hereby declared and established, shall be, and remain, the inviolate constitution of the said College forever; and the same shall not be altered or alterable by any ordinance or law of the said Trustees: *Provided*, That it may be lawful for the Congress of the United States to revoke and repeal this Act, at any and at all times whenever they shall think fit so to do.

SEC. 10. *And be it further enacted*, That it shall be the duty of the said Board of Trustees to keep a regular book or journal, in which shall be entered, under their direction, besides an account of all their ordinary acts and proceedings, all the by-laws, ordinances, rules, and regulations, which may be adopted by the said Board, for their own government, and for the government of the institution; also, a schedule of all the property and effects, real, personal, or mixed, which shall or may be vested in the said Trustees, for the use of the said College, by virtue of any gift, grant, bargain, sale, will, or otherwise, together with annual statements concerning the accounts and finances of the institution. That it shall, moreover, be the duty of the said Trustees, to cause to be enrolled, in the said book or journal, the names of all the contributors to the institution qualified to vote for Trustees, with their respective places of residence; and the said book or journal shall, at all times be open to the inspection or examination of the Attorney General of the United States; and, when required by either House of Congress, it shall be the duty of said Trustees to furnish information respecting their own conduct, the state of the institution, and of its finances, which shall or may be so required.

SEC. 11. *And be it further enacted*, That in case any vacancy or vacan-

cies shall happen in the Board of Trustees aforesaid by death, inability, resignation, or otherwise, at any time between the stated or triennial elections, that then it shall and may be lawful for the other Trustees, or any five of them, to proceed, at any subsequent meeting after the happening of such vacancy or vacancies, to choose, by ballot, any suitable person or persons to fill the same.

SEC. 12. *And be it further enacted*, That the employment or application of the funds or income of the said corporation, or any part thereof, for any purpose or object other than those expressed and defined in the first section of this Act, or the investment thereof in any other mode than is described and provided in the second section thereof, shall be deemed and taken to be a forfeiture of all the rights and immunities derived from this Act, and the same shall, thenceforth, cease and become null and void.

Approved, February 9, 1821.

By Act of Congress of July 14, 1832, there were donated to the Columbian College Washington city lots to the value of twenty-five thousand dollars; the Act providing that the fund arising from the proceeds of the sale of the lots should constitute an endowment fund for the support of professorships. By Act of February 23, 1839, permission was granted to the College to use seven thousand dollars of the fund for the payment of its debts.

By Act of Congress of February 21, 1871, a form of government by an elected Governor and Legislative Assembly was established for the District of Columbia, and on July 25, 1871, the Legislative Assembly passed the following statute:

An Act for the relief of the Columbian College, in the District of Columbia

Be it enacted by the Legislative Assembly of the District of Columbia, That the Columbian College, in the District of Columbia, chartered by and organized and acting under the Act of Congress approved February nine, eighteen hundred and twenty-one, may, from the proceeds of any sale of its property, apply such sum as may be needful to pay its present indebtedness and place its libraries, buildings, and apparatus of instruction in good condition, and execute all deeds needful to quiet the title of property already sold.

SEC. 2. *And be it further enacted*, That the Trustees of said College elected in May last shall constitute the corporation of said College until their successors in office shall be chosen and qualified as hereinafter provided, and may, until then, as vacancies occur in their number, temporarily fill them by the election of fit persons residing in the District of Columbia.

SEC. 3. *And be it further enacted*, That the said Trustees shall meet in the Law Building of said College at noon, on the twenty-fifth day of June, eighteen hundred and seventy-two, for the purpose of choosing, and shall then and there, or at the time and place to which said meeting may be adjourned, elect thirteen Trustees and thirteen Overseers, who shall, upon their election, constitute the College corporation, and they and their successors shall thenceforward be, and be known and recognized as, the Columbian College in the District of Columbia.

SEC. 4. *And be it further enacted*, That the Trustees chosen at the said meeting in June, eighteen hundred and seventy-two, or who may thereafter be chosen, shall be residents of the District of Columbia, and that at said meeting, and at any annual meeting of Trustees and Over-

seers to be thereafter held in said City of Washington on the Tuesday next preceding the last Wednesday in June, annually, the Trustees and Overseers in convention assembled shall fill vacancies in their Board, and shall, by ballot, elect from among the Trustees two suitable persons, one to be President and the other to be Treasurer and Secretary of said corporation and of the Board of Trustees, and shall establish ordinances and by-laws, or alter or repeal the same; and also frame laws and regulations for the College Faculty and students in all the departments thereof, and by ballot elect such teachers, tutors, professors, lecturers, and President, and with such salaries and duties as said corporation may deem proper.

SEC. 5. *And be it further enacted*, That at said annual meetings not less than seven Trustees and three Overseers shall constitute a quorum for the transaction of any business except adjournment, and adjournment may be made by any number present: *Provided*, That a final adjournment shall not be delayed beyond one week after the time fixed for the annual meeting.

SEC. 6. *And be it further enacted*, That during the interval between said annual meeting the Trustees shall, as now, hold semi-annual, quarterly, monthly, and occasional meetings to fill temporarily, as the case may require, vacancies in the Faculty or in their own Board, and with all their present powers as modified by this Act, subject to the ordinances and by-laws of the corporation; but no real estate or other property of said corporation shall, after the twenty-fifth day of June, eighteen hundred and seventy-two, be disposed of by the Trustees, except by vote of the corporation or in pursuance of its ordinances.

Approved, July 25, 1871.

This Act of the Legislative Assembly of the District was confirmed by Congress in 1873, and by the same statute the College was given the name of "the Columbian University." This Act was as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbia[n] College in the District of Columbia

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the act to incorporate the Columbia[n] College in the District of Columbia, approved February ninth, eighteen hundred and twenty-one, be, and the same is hereby, so modified that said corporation shall be hereafter known and called by the name of the Columbia[n] University, and in that name shall take, hold and manage all the estate and property now belonging to said College, or that may hereafter be conveyed, devised, or bequeathed to said corporation by its original name; that the restriction of the yearly value of the property of the said corporation to the sum of twenty-five thousand dollars be, and the said restriction is hereby, repealed; and that said corporation may increase the number of its Overseers to twenty-one, and the number of its Trustees to twenty-one, exclusive of the President of the Faculty, who shall be, *ex officio*, a Trustee of said corporation.

SEC. 2. That the Act for the Relief of the Columbian College in the District of Columbia enacted by the Legislative Assembly of said District, and approved July twenty-fifth, eighteen hundred and seventy-one, be, and the same is hereby, approved and confirmed: *Provided*, That this Act nor the said Act of the Legislative Assembly of the said District, shall be so construed as to authorize the said Columbian University to sell, or use the proceeds of any sale of land granted by Congress to said institution for any purpose other than that expressed in the Act

of Incorporation and the Act granting any such land or real estate, or contrary to any will, devise or grant of any land or real estate heretofore or hereafter made, by any person or persons to said institution.

Approved, March 3, 1873.

By the Act of Congress of May 31, 1878, it was provided that the annual meeting of the corporation might be held either in May or June, and by the Act of January 14, 1893, it was provided that the Secretary and the Treasurer might be elected from the Trustees or not, as the Board of Trustees might deem proper, and that it should not be necessary that both offices should be held by one person.

In 1898 Congress amended the charter by an Act as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Columbian University, on and after the first day of June, eighteen hundred and ninety-eight, shall be under the management and control of a Board of Trustees, consisting of twenty-two members; the President of the University shall be ex officio a member of said Board, and the remaining twenty-one shall be divided into three classes with seven members in each class; a majority of said Board shall be residents of the District of Columbia, and seven members shall constitute a quorum for the transaction of business. That on or before the thirty-first day of May, eighteen hundred and ninety-eight, a meeting of the Trustees and Overseers of said University shall be held, and said meeting shall elect twenty-one Trustees, seven of whom shall be designated to serve from the first day of June, eighteen hundred and ninety-eight, until the annual meeting in eighteen hundred and ninety-nine; and seven from the same date until the annual meeting in nineteen hundred; and seven until the annual meeting in nineteen hundred and one. Two-thirds of said Trustees, and also the President of the University, shall be members of regular Baptist churches; that is to say, members of churches of that denomination of Protestant Christians now usually known and recognized under the name of the regular Baptist denomination; said Trustees so elected shall serve for the periods mentioned and until their successors are elected. That on the first day of June, eighteen hundred and ninety-eight, the terms of office of the present Trustees and Overseers shall cease and determine and thereupon the control and management of said University, its property and trusts, shall vest in the Board of Trustees elected as hereinabove provided and their successors.

SEC. 2. That at the annual meeting in eighteen hundred and ninety-nine, and annually thereafter, there shall be elected by the Board of Trustees seven Trustees to fill the places of the class whose terms of office expire; and the Board of Trustees may prescribe in a by-law the mode of nominating persons for election as Trustees. A failure to elect Trustees at the annual meeting shall not create vacancies in the Board, but such election may be had and vacancies occurring during the year may be filled for the unexpired term by the Board at any general or special meeting.

SEC. 3. That the Board of Trustees provided for herein shall have, and they are hereby given, full power and authority to appoint and remove any and all officers, professors, lecturers, teachers, tutors, agents,

and employees who are now or may hereafter be elected or appointed; they may, by a vote of two-thirds of all the Trustees constituting said Board, adopt and change by-laws for the conduct of the business and educational work of said University; they may appoint an Executive Committee composed of Trustees, designate the number and Chairman thereof, with such powers and authority as are usually exercised by an Executive Committee, and which shall be conferred by the Board, subject always to the control of the Board of Trustees; they may create and establish schools and departments of learning to be connected with and become a part of said University; they may receive, invest, and administer endowments and gifts of money and property for the maintenance of educational work by said University, and by any department and chair thereof now established or which may hereafter be created or established by said University; and they shall have all the powers and authority heretofore granted to and vested in the Trustees and Overseers of said University.

SEC. 4. That the annual meeting of the Board of Trustees shall be held in the City of Washington, District of Columbia, on the Wednesday nearest the first day of June in each year; two other stated meetings shall be held on the second Wednesday of October and January in each year, and special meetings may be called by the President of the University or by the Executive Committee or by seven members of the Board of Trustees upon such notice and at such hour and place as may be designated in the by-laws; at all meetings any business necessary to be transacted may be considered and acted upon, and any meeting may be adjourned from time to time by the Trustees present, whether constituting a quorum or not, notice of such adjournment to be given, as of called meetings, to those Trustees not present.

SEC. 5. That the terms of office of the President of the University, the Treasurer and other officers, professors, and lecturers, and the employment of agents and employees, and the title to all the property and rights in and management of the endowment funds of the University shall not be affected by the change of management herein provided for, but they shall continue and be subject to the control and management of the Board of Trustees hereby created the same as they are now subject to the control and management of the corporation.

SEC. 6. That all acts and parts of acts inconsistent with the provisions of this Act are hereby repealed.

Approved, March 18, 1898.

In 1904 Congress passed an Act restoring the non-denominational character of the institution and permitting the change of its name. This Act and the certificate of change of name were as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the Act to incorporate the Columbian College, in the District of Columbia, approved February ninth, eighteen hundred and twenty-one, and the amendatory Act approved March eighteenth, eighteen hundred and ninety-eight, be and the same are hereby, amended by repealing and striking out of the said charter the following words in lines twenty to twenty-five in section one of the said amendatory Act of March eighteenth, eighteen hundred and ninety-eight, namely, "Two-thirds of said Trustees, and also the

President of the University, shall be members of regular Baptist churches; that is to say, members of churches of that denomination of Protestant Christians now usually known and recognized under the name of the regular Baptist denomination."

SEC. 2. That section thirteen of the original charter of February ninth, eighteen hundred and twenty-one, which provides "That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion," be, and the same is hereby, re-enacted and shall be hereafter in full force as a part of said charter.

SEC. 3. That power is hereby given to the Board of Trustees of said University to change the name of said University at any regular meeting by a vote of not less than two-thirds of the total number of members of the Board, as prescribed by the charter, subject to the approval of the Secretary of the Interior and the Commissioner of Education. That upon said action being taken a certificate, under the seal of the University, stating the name adopted and the date when the name shall go into effect not less than thirty days nor more than six months from the date of its adoption, together with the fact that said name has been adopted as herein prescribed, shall be filed in the office of the Recorder of Deeds of the District of Columbia, and thereupon, upon the date specified for the name to go into effect, the University shall be known and designated by the name adopted, and by said new name the said University shall be vested with and convey its real estate, hold, control, and administer endowments and gifts of money and property heretofore and hereafter made for the maintenance of its educational work, and do and perform all acts which it now has the power to do under its said charter. Such change of name shall not in any other way change, affect, or modify in any degree the rights, privileges, obligations, and powers of the said University under the charter of February ninth, eighteen hundred and twenty-one, and the amendatory Acts thereto.

SEC. 4. That all Acts and parts of Acts inconsistent with this Act are hereby repealed.

Approved, January 23, 1904.

Certificate of Change of Name of the Columbian University to "The George Washington University"

DISTRICT OF COLUMBIA,
City of Washington:

The Columbian University, in accordance with the Act of Congress approved January 23, 1904, does hereby certify that, at the regular meeting of its Board of Trustees, duly held on the eighth day of June, 1904, at which meeting there were present more than two-thirds of the total number of members of the Board, it was unanimously resolved that, subject to the approval of the Secretary of the Interior and the Commissioner of Education, prescribed by said Act of Congress, the name of this University be changed to that of The George Washington University, the same to go into effect on the first day of September, A. D. 1904.

And it is hereby further certified, that on the twentieth day of June, A. D. 1904, the Secretary of the Interior and the Commissioner of Education duly approved in writing said change of name, which said written approval is hereto attached and made a part hereof.

In testimony whereof, said Columbian University has given this its

certificate under its corporate seal, at the City of Washington, D. C., on the twenty-first day of June, A. D. 1904.

Attest:

JOHN B. LARNER,
Secretary.

(Corporate Seal.)

CHARLES W. NEEDHAM,
President.

UNITED STATES OF AMERICA,
DEPARTMENT OF THE INTERIOR,
WASHINGTON, D. C., June 20, 1904.

Pursuant to section 882 of the Revised Statutes, I hereby certify that the annexed paper is a true copy of the original as it appears upon the files of the Department.

In testimony whereof, I have hereunto subscribed my name, and caused the seal of the Department of the Interior to be affixed, the day and year first above written.

E. A. HITCHCOCK,
Secretary of the Interior,
W. B. A.

(Seal of the Department of the Interior.)

Whereas by Act of Congress approved January 23, 1904, the Columbian University was authorized to change its name, subject to the approval of the Secretary of the Interior and the Commissioner of Education;

And whereas it has been made satisfactorily to appear to us that, at the regular meeting of the Board of Trustees of said University, held on the eighth day of June, A. D. 1904, at which meeting there were present more than two-thirds of the total number of members of said Board, it was unanimously resolved to change the name of said University to that of The George Washington University, the same to go into effect on the first day of September, A. D. 1904;

Now, therefore, this is to witness that, pursuant to said Act of Congress, we do hereby, this twentieth day of June, A. D. 1904, approve said change of name.

E. A. HITCHCOCK,
Secretary of the Interior.
W. T. HARRIS,
Commissioner of Education.

(Seal of the Department of the Interior.)

In 1905 a further amendment to the charter was made, as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That The George Washington University shall have, and is hereby given, power to increase the number of its Trustees from time to time, by a two-thirds vote of the whole number of the Trustees at the time such vote is taken, to a number not exceeding forty-five. In case of the increase of the number of Trustees a certificate, stating the number of the Board and the time when it shall go into effect and that the action so taken was by two-thirds vote as required by this Act, shall be filed with the Recorder of Deeds of the District of Columbia, and upon and after the date named the Board shall consist of the number of Trustees, stated in such certificate, and said

Board may also appoint a Board or Boards of Visitors for any department or departments of educational work carried on by the University, such Boards of Visitors to be advisory only.

SEC. 2. That by and with the consent of said University, Colleges may be organized hereunder for the purpose of carrying on, in connection with the University, special lines of educational work in the arts, sciences, and liberal and technical knowledge, such Colleges to be educationally a part of the system of the University, but upon independent financial foundations, and to this end any five or more persons desirous of associating themselves for the purpose of establishing a College hereunder, may make, sign, and acknowledge before any officer authorized to take acknowledgment of deeds in the District of Columbia, and with the assent of the University in writing, file in the office of the Recorder of Deeds of the said District a certificate in writing, in which shall be stated: First, the intention to organize a corporation under this Act and the assent of the University thereto; second, the name or title by which the College shall be known in law; third, the names of the Trustees constituting the first Board, and such Trustees may be divided into three classes, the term of office of one class expiring annually; fourth, the manner of nominating and electing successors to said Trustees; fifth, the branch or branches of literature, arts, sciences, liberal or technical knowledge proposed to be taught; sixth, that the highest officer of said College shall be a Dean, the Dean and members of the Faculty to be members of the Educational Councils of the University in accordance with the rules governing the University; seventh, that all degrees shall be bestowed by the University; eighth, that in all financial and legal responsibility the College shall be an independent organization. Upon filing such certificate the Trustees named therein and their successors shall be a body politic, incorporated by the name and style stated in the certificate, and by that name and style shall have perpetual succession in association with the University, with power in the College to sue and be sued; plead and be impleaded; to acquire, hold, and convey property in all legal ways; to receive by gift, devise, or otherwise, and hold, control, and administer endowments and gifts of money and property thereafter made to it for the maintenance of its educational work; to have and use a common seal, and to alter and change the same at pleasure; to make and alter from time to time such by-laws, not inconsistent with the Constitution of the United States or the laws in force in said District or the laws of the University regulating the conduct of educational work, as may be deemed necessary for the government of the College, but said College shall not confer academic or honorary degrees; such College shall hold the property of the institution and all moneys and property conveyed to it by purchase, gift, conveyance, will, devise, or bequests solely for the purposes of the educational work specified in said certificate; the Trustees of such College shall faithfully apply all funds collected or received and the proceeds thereof belonging to the institution, according to their best judgment, in purchasing lands and erecting buildings, supporting necessary officers, instructors, and servants, and procuring all equipment, educational and otherwise, necessary to carry on the work of the College.

SEC. 3. That said University may enter into affiliated agreements with any institutions of learning outside of the District of Columbia, for the purpose of giving to students of such institutions the educational facilities of said University and the Departments of the Government in the City of Washington which are by law open to students, upon such terms as are mutually agreed upon by the said University and the affiliated institutions.

Approved, March 3, 1905.

Under section 2 of the Act of 1905, there now exist two colleges which are doing special educational work and which are in active operation—the National College of Pharmacy, organized in 1905, and the College of Veterinary Medicine, organized in 1908. The financial affairs of these Colleges are separate from those of the University, and are managed by their separate Boards of Trustees. The Faculties of these Colleges are also appointed by their respective Boards of Trustees. The connection between these Colleges and the University consists in the fact that their Deans are members of the President's Council, and that the Board of Trustees of the University confers degrees for the work done in these Colleges.

By resolutions of the Board of Trustees of the University of May 6, 1909, and January 12, 1910, provision was made for the nomination by the Alumni of two Alumni Trustees each year. In the spring of 1910, this plan was put in operation, and since then the two persons annually nominated as Alumni Trustees have been elected to membership on the Board.

BY-LAWS OF THE GEORGE WASHINGTON UNIVERSITY

ARTICLE I

The President of the University

SECTION 1. The President of the University shall hold office without limit of time, until his resignation be accepted, or he be removed from office by the Board of Trustees; he shall be the executive head of the University and of all its departments, exercising such supervision, direction, and control as will promote the efficiency of every department; he shall be responsible, under the supervision of the Board of Trustees, for the discipline of the University; he shall preside at the meetings of the Faculties, and be the official medium of communication between the Faculties and the Board of Trustees, and between the students of the University and the Board of Trustees; he shall recommend to the Board of Trustees appointments to the several Faculties; he shall be responsible for carrying out such measures concerning the internal administration of the University as the Board of Trustees may enact. He shall make a yearly report to the Board of Trustees at the January meeting concerning the state of the University. He shall control the expenditure and administration of the yearly budget when formally adopted by the Board of Trustees.

ARTICLE II

Board of Trustees

SECTION 1. No member of the teaching staff of the University except the President of the University, or of the teaching staff of any college incorporated under the charter of the University, while he remains such, shall be capable of holding the office of Trustee of the University.

SEC. 2. At the annual meeting of the Board after the election of Trustees, the Board shall elect by ballot from among their number a Chairman and Vice-Chairman of the Board to serve until the next annual meeting and until their successors are elected and qualified. The Chairman of the Board, and in his absence the Vice-Chairman, shall preside at all meetings of the Board of Trustees.

SEC. 3. At the annual meeting after the election of Trustees the Board shall elect by ballot the following officers, to serve until the next annual meeting and until their successors are elected and qualified: a Secretary, a Treasurer, an Auditor, and a Counsel of the University.

SEC. 4. In the event of a failure for any reason so to elect either or

all of the said officers, or in case of any vacancy from any cause, then an election may be held for the unexpired term at a meeting called for that purpose.

SEC. 5. The annual meeting of the Board of Trustees shall take place on the Wednesday nearest the first day of June of each year.

SEC. 6. Stated meetings of the Board shall be held on the second Wednesdays of October and January.

SEC. 7. Notice of all stated meetings shall be mailed by the Secretary of the University to each member of the Board at least five days previous to the time of such meetings.

SEC. 8. Special meetings may be called at any time by the President of the University, the Executive Committee, or by seven members of the Board of Trustees. The Secretary shall issue the notices of such meetings.

SEC. 9. The call for special meetings shall state the nature of the business to be considered, and shall be mailed at least two days before the meeting is to be held.

SEC. 10. Seven members of the Board of Trustees shall constitute a quorum for the transaction of any business.

ARTICLE III

Executive Committee

SECTION 1. There shall be an Executive Committee of seven members of the Board of Trustees, of which the President of the University shall be Chairman *ex officio*. The other members of the committee shall be elected by ballot at the annual meeting, and shall serve until their successors are elected.

SEC. 2. In case of inability to act on the part of any member of the Committee his place may be filled by the Board of Trustees.

SEC. 3. Four members of the Committee shall constitute a quorum for the transaction of business.

SEC. 4. The Committee is authorized to transact such business as may require attention between the regular meetings of the Board of Trustees; but the Chairman of the Committee shall make report at each stated meeting of the Board on the proceedings of the Committee during the intervening period, and at any meeting of the Board, if any member of the Board shall request that the report of the proceedings of any meeting or meetings of the Committee be read, the same shall be read by the Secretary.

SEC. 5. Regular meetings of the Committee shall be held during the academic year monthly, and special meetings may be called by the Secretary whenever requested by the Chairman or any two members of the Committee.

SEC. 6. In case of inability to act on the part of the Chairman of the Committee, the Committee may appoint a temporary chairman for the meeting.

ARTICLE IV

Finance Committee

SECTION 1. There shall be a Finance Committee of three members of the Board of Trustees who shall be elected at the annual meeting to serve until their successors are elected.

SEC. 2. The Committee shall invest and reinvest University funds, and shall exercise general supervision over the Treasurer's office, making report at every regular meeting of the Board of Trustees.

ARTICLE V

Visiting Committees

SECTION 1. At the annual meetings there shall be appointed a Committee of three members for each school or department of the University, who shall visit and inspect the condition and conduct of the school or department and make a written report thereon to the stated meetings of the Board of Trustees.

ARTICLE VI

The Secretary of the University

SECTION 1. The Secretary of the University shall as such attend and keep minutes of all meetings of the Board of Trustees, the Executive Committee, the educational council and faculties, as may by resolution of the Board be required to keep records. He shall give to any meeting at which he is entitled to be present any information concerning University affairs which he may have and which may be proper to be brought before such meeting. He shall have the custody of all the files and records of the University proper to his office; he shall have the custody of the corporate seal of the University, and shall affix it to corporate acts authorized by the Board of Trustees or the Executive Committee, and he shall generally do and perform such administrative duties as may be assigned him by the President from time to time not inconsistent with the by-laws.

ARTICLE VII

The Treasurer of the University

SECTION 1. The Treasurer shall give bond or shall be bonded in a surety company, at the expense of the University, for the faithful performance of his duties in such sum and with such sureties as shall be approved by the Board of Trustees.

SEC. 2. He shall keep all the funds of the University in such bank or banks as the Board of Trustees shall designate; he shall keep the trust funds, and the full account thereof, separate from the current or general funds and accounts of the University; he shall make monthly statements, showing the current financial operations and the condition of the trust funds and other invested funds to the Executive Committee; he shall

make a full report annually to the Board of Trustees as specified in Article XI, and he shall at such other times make such reports as the Trustees may require.

SEC. 3. He shall make payments only by checks upon the bank countersigned by the President of the University, or in his absence by the Secretary, and only for investments, salaries, bills, and expenses authorized by the Board of Trustees or the Executive Committee, provided, however, that when the Treasurer is absent or incapacitated, or when the office of Treasurer is vacant, or when the President and Secretary are both absent or incapacitated, or in any other emergency, the Executive Committee may by resolution make special and temporary arrangements for the signing or countersigning of checks.

ARTICLE VIII

The Auditor of the University

SECTION 1. The Auditor of the University shall make three audits each year of the books and accounts of the Treasurer. The fiscal year shall end at midnight on August 31 of each year, and the accounts shall be audited as of December 31, April 30, and August 31 at midnight.

SEC. 2. A corporation may be elected by the Board of Trustees as the Auditor of the University.

ARTICLE IX

The Counsel of the University

SECTION 1. The Counsel of the University shall render opinions to the President, the Board of Trustees, or to the Executive Committee, when requested, upon legal questions arising in the management of the educational or business affairs of the University, and shall represent the University in all legal proceedings prosecuted by or against the University. The Counsel of the University may be a member of the Board of Trustees.

ARTICLE X

Committee on Catalogue

SECTION 1. Each year the annual catalogue of the University shall be prepared by a committee consisting of the President of the University as Chairman, the Secretary of the University, and three members of the Faculty of the University appointed by the President. The Catalogue shall be published annually in pamphlet form. Each annual catalogue shall contain the charter and by-laws of the University.

ARTICLE XI

Annual Financial Report

SECTION 1. Between July 1 and October 1 in each year there shall be prepared by the Treasurer a financial report showing in detail the

financial condition of the University during the previous year, which financial report shall be certified by the Auditor to be correct. This report shall be laid before the Board of Trustees at their October meeting, and when approved by the Board of Trustees shall, with any modifications ordered by them and assented to by the Treasurer and Auditor, be printed by the University in pamphlet form.

ARTICLE XII

Sale of Land and Other Assets

SECTION 1. Real estate and other securities of the University shall not be sold or disposed of except by direction of the Board of Trustees.

SEC. 2. All deeds and conveyances of real estate belonging to the University shall be signed by the President of the University and the Secretary, and the same shall be acknowledged, attested, and the seal of the University attached thereto by the Secretary.

ARTICLE XIII

Amendments

SECTION 1. These by-laws may be amended or repealed at any meeting of the Board by a vote of the majority of all members of the Board, provided notice of the proposed amendment or change has been sent to each member of the Board at least five days before the meeting.

ARTICLE XIV

Former By-Laws Repealed

SECTION 1. All by-laws heretofore enacted are hereby repealed.

ORDINANCE

ARTICLE I

Organization

SECTION 1. The departments, colleges, and schools forming an integral part of the University are as follows: The Department of Arts and Sciences, comprehending the School of Graduate Studies, Columbian College, the College of Engineering, the Teachers College; the Law School; the Medical School; the Dental School. These departments, colleges, and schools are subject to the Board of Trustees represented by the President of the University, and unless otherwise noted, to the rules and regulations herein set forth.

SEC. 2. Associated colleges organized in accordance with the charter of the University on independent financial foundations are under the immediate control of their respective Boards of Trustees, subject in educational matters to the authority of the President and the University Board of Trustees. The National College of Pharmacy and the College of Veterinary Medicine are such associated colleges.

SEC. 3. The Medical School including the University Hospital, and the Dental School are organized under special ordinances of the Board of Trustees, and are subject to the rules and regulations of this ordinance only where the special ordinances governing them do not conflict with this ordinance.

ARTICLE II

Faculties

SECTION 1. Each department, college, and school shall be under the immediate charge of a faculty subject to the authority of the President's Council. The faculties shall recommend to the Board of Trustees candidates for degrees, diplomas, certificates, and awards.

SEC. 2. Each faculty shall be composed of all the Professors, Assistant Professors, and Instructors who teach in the department, school, or college under the charge of that faculty, and of such other members as the faculty may, on the recommendation of the Dean, with the approval of the President, admit to membership. The President shall be *ex officio* a member of each faculty, and the Secretary shall *ex officio* have voice at all faculty meetings, but no vote.

SEC. 3. A faculty may, at its discretion, delegate any of its purely administrative powers to an executive committee of which a Dean shall be Chairman, the members of which shall be nominated by that Dean and appointed by the President. Every executive committee shall be subject to the authority of the faculty from which it is appointed.

ARTICLE III

President's Council

SECTION 1. The President's Council shall have charge of all administrative educational questions, subject to the confirmation of the Board of Trustees.

SEC. 2. The President's Council shall be responsible for the coördination of work throughout the University and shall have immediate jurisdiction over every administrative educational question touching the interests of more than one department, college, or school.

SEC. 3. The President's Council shall be composed of the President of the University, the Secretary of the University, and of all the Deans in the University, *ex officio*, and of a representative or representatives from each department, college, and school of the University to be elected annually by the faculties of the respective departments, colleges, and schools; those departments, colleges, and schools with a registration of less than two hundred students having one representative, those with more than two hundred students having two representatives.

ARTICLE IV

Deans

SECTION 1. The Dean of each department, college, or school shall be appointed by the Board of Trustees from among the members of its faculty. The Dean shall, under the President, be the chief executive officer of his department, college, or school. As such he shall have authority in his department, college, or school to enforce such regulations as may be imposed by the Board of Trustees or the Faculty. He shall be held responsible for the proper preparation and conduct of the business of his department, college, or school, and for the performance of such administrative duties as pertain to his office and may be required of him by the President. He shall make annual written reports to the President.

ARTICLE V

Titles of the Teaching Staff

SECTION 1. The academic titles of those engaged in teaching shall be Professor, Assistant Professor, Instructor, Assistant, Demonstrator, and Lecturer. The word "Associate" may be prefixed to any title where, under the terms of this ordinance, it is appropriate, and in the Medical School this title may be used as provided in the special ordinances governing that department.

ARTICLE VI

Appointments

SECTION 1. Instructors, Assistants, Demonstrators, and Lecturers shall, in the absence of agreement to the contrary, be appointed annually, with such compensation as shall be fixed by the Board of Trustees at the time of the appointment.

SEC. 2. Assistant Professors shall not be appointed for more than three years, subject to removal in accordance with the provisions of the charter of the University, and shall serve as Assistant Professors for at least three years before being eligible for promotion to a professorship.

SEC. 3. Professors shall be appointed without limit of time, subject to removal in accordance with the provisions of the charter of the University.

ARTICLE VII

Academic Year

SECTION 1. The academic year shall begin on the last Wednesday of September, and shall end on the Wednesday following the annual meeting of the Board of Trustees.

THE BOARD OF TRUSTEES

CHARLES HERBERT STOCKTON, LL.D.

President of the University

1914

- CHARLES BERGER CAMPBELL, Phar.D., M.D., 1731 Lamont Street
- *HARRY CASSELL DAVIS, A.M., L.H.D., 1006 Massachusetts Avenue
- WILLIAM JAMES FLATHER, Riggs National Bank
- *JOHN BELL LARNER, LL.B., LL.D., 900 F Street
- HENRY BROWN FLOYD MACFARLAND, 1420 New York Avenue
- WILLIAM HENRY SINGLETON, A.B., 2020 H Street
- HENRY WHITE, LL.D., 1624 Crescent Place

1915

- ABRAM LISNER, 1723 Massachusetts Avenue
- WILLIAM ANDREW MEARNES, LL.M., 2301 S Street
- *THEODORE WILLIAMS NOYES, A.M., LL.M.,
1101 Pennsylvania Avenue
- HENRY CLEVELAND PERKINS, 1701 Connecticut Avenue
- *ALEXANDER TAIT STUART, A.M., The Wyoming
- MAXWELL VAN ZANDT WOODHULL, A.M., 2033 G Street

1916

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- *JAMES HOLDSWORTH GORDON, A.M., LL.B., 412 Fifth Street
- ARCHIBALD HOPKINS, A.M., LL.B., 1826 Massachusetts Avenue
- THOMAS SNELL HOPKINS, LL.B., Hibbs Building
- WILLIAM BRUCE KING, A.M., LL.M., 1708 S Street

* Nominated by the Alumni.

CHAIRMAN OF THE BOARD OF TRUSTEES

JOHN BELL LARNER

VICE-CHAIRMAN OF THE BOARD OF TRUSTEES

ARCHIBALD HOPKINS

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Finance.—W. J. FLATHER, A. HOPKINS, M. VAN Z. WOODHULL.

Subscriptions and Endowments.—A. LISNER, H. B. F. MACFARLAND, H. C. PERKINS, W. J. FLATHER, M. VAN Z. WOODHULL.

Honorary Degrees.—C. H. STOCKTON, H. G. BEYER, A. HOPKINS, H. WHITE.

Columbian College.—W. H. SINGLETON, H. C. DAVIS, W. B. KING.

Engineering.—H. C. PERKINS, M. VAN Z. WOODHULL, T. W. NOYES.

School of Graduate Studies and Teachers College.—H. G. BEYER, A. T. STUART, H. C. DAVIS.

Law.—J. B. LARNER, H. B. F. MACFARLAND, J. H. GORDON.

Medicine, Dentistry, and Hospital.—H. G. BEYER, J. B. LARNER, T. S. HOPKINS.

Associated Colleges.—T. S. HOPKINS, A. B. BROWNE, T. W. NOYES.

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

President.—CHARLES HERBERT STOCKTON, LL.D.

Secretary.—RICHARD COBB, A.B.

Offices.—2023 G Street.

Treasurer.—CHARLES WENDELL HOLMES.

Office.—2024 G Street.

Librarian.—ALFRED FRANCIS WILLIAM SCHMIDT, A.M.

Office.—2023 G Street.

DEPARTMENT OF ARTS AND SCIENCES

Dean.—HOWARD LINCOLN HODGKINS, Ph.D.

Dean of Columbian College.—WILLIAM ALLEN WILBUR, A.M.

Dean of the College of Engineering.—HOWARD LINCOLN HODGKINS, Ph.D.

Dean of Teachers College.—WILLIAM CARL RUEDIGER, Ph.D.

Recorder.—ELEANOR WILSON HANCE, S.M.

Offices.—2023 G Street.

Dean of the School of Graduate Studies.—CHARLES EDWARD MUNROE, Ph.D., LL.D.

Office.—1325 H Street.

LAW SCHOOL

Dean.—CHARLES NOBLE GREGORY, A.M., LL.D.

Secretary.—WILLIAM CABELL VAN VLECK, A.B., LL.B.

Office.—New Masonic Building.

MEDICAL SCHOOL

Dean.—WILLIAM CLINE BORDEN, M.D.

Librarian.—HARRY KNOX CRAIG, M.D.

Offices.—1325 H Street.

DENTAL SCHOOL

Dean.—JOHN ROLAND WALTON, D.D.S.

Office.—1325 H Street.

NATIONAL COLLEGE OF PHARMACY

Dean.—HENRY E. KALUSOWSKI, M.D., Phar.D.

Office.—808 I Street.

COLLEGE OF VETERINARY MEDICINE

Dean.—DAVID EASTBURN BUCKINGHAM, V.M.D.

Office.—2113 Fourteenth Street.

PRESIDENT'S COUNCIL

(Arranged in Departmental Groups)

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 GEORGE NEELY HENNING, A.M..... Professor of Romance Languages
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 WILLIAM CLINE BORDEN, M.D..... Dean of the Medical School
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 HENRY CLAY THOMPSON, D.D.S..... Professor of Operative Dentistry
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Dean of the National College of Pharmacy

DAVID EASTBURN BUCKINGHAM, V.M.D.,

Dean of the College of Veterinary Medicine

COMMITTEES OF THE PRESIDENT'S COUNCIL

Catalogue and Other Publications.—The President, the Secretary, Professors HODGKINS, WILBUR, and SWISHER.

Admissions.—Professors WILBUR, MUNROE, and RUEDIGER.

Schedule.—Professors HENNING, MECHLIN, and RUEDIGER.

Library.—Professors SCHOENFELD, Henning, the Librarian.

Student Organizations.—Professors RUEDIGER, HENNING, and McNEMAR.

Debating.—Professors McNEMAR, FERSON; Messrs. BICKEL and SELTZER.

UNIVERSITY MEMBERS OF FACULTIES AND TEACHING STAFF*

(Arranged with the exception of the President, in groups, in the order
of appointment.)

CHARLES HERBERT STOCKTON, LL.D.....PRESIDENT OF THE UNIVERSITY

PROFESSORS

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ALBERT FREEMAN AFRICANUS KING, A.M., M.D., LL.D.,

Dean Emeritus of the Faculty of Medicine and Professor of Obstetrics

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.,
Professor of Zoology, Emeritus

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Professor of Pediatrics and Clinical Professor of Medicine

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Arts and Sciences, Dean of the College of Engineer-
ing, and Professor of Mathematics

HENRY CRÈCY YARROW, M.D.....Professor of Dermatology, Emeritus
DANIEL KERFOOT SHUTE, A.B., M.D.,

Professor of Neuro-Anatomy, and Clinical Professor of Ophthalmology

HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German

STERLING RUFFIN, M.D.....Professor of Medicine

CHARLES EDWARD MUNROE, Ph.D., LL.D.,

Dean of the School of Graduate Studies and Professor of Chemistry

GEORGE PERKINS MERRILL, Ph.D., Professor of Geology and Mineralogy

CHARLES WILLIAMSON RICHARDSON, M.D.,

Professor of Laryngology, Rhinology, and Otology

FRANK WIGGLESWORTH CLARK, Sc.D....Professor of Mineral Chemistry

MELVILLE CHURCH, LL.M.....Professor of the Law of Patents

WILLIAM ALLEN WILBUR, A.M.,

Dean of Columbian College and Professor of English

JOHN WESLEY BOVÉE, M.D.....Professor of Gynecology

THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine

AURELIUS RIVES SHANDS, M.D.....Professor of Orthopedic Surgery

CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology

* NOTE—In many instances members of the Teaching Staff give only part time to the University. For the names of the members of the Faculties and Teaching Staff of the Associated Colleges, see Part III of this catalogue.

- FRANCIS RANDALL HAGNER, M.D.,
Professor of Genito-Urinary Surgery and Venereal Diseases
- WALTER COLLINS CLEPHANE, LL.M..... Professor of Law
- MITCHELL CARROLL, Ph.D.,
Professor of Archaeology and the History of Art
- PAUL BARTSCH, Ph.D..... Professor of Zoology
- EDWIN CHARLES BRANDENBURG, LL.M..... Professor of Law
- ARTHUR PETER, LL.B..... Professor of Law
- WILLIAM CREIGHTON WOODWARD, LL.M., M.D.,
Professor of Medical Jurisprudence
- ALBERT LIVINGSTON STAVELY, M.D..... Clinical Professor of Gynecology
- GEORGE NEELY HENNING, A.M..... Professor of Romance Languages
- JOHN PAUL EARNEST, A.M., LL.M..... Professor of Law
- JOHN ROLAND WALTON, D.D.S..... Dean of the Dental School and
Professor of Prosthetic Dentistry and Orthodontia
- WILLIAM ALANSON WHITE, M.D.,
Professor of Psychiatry, and Clinical Professor of Neurology
- ALBERT BURNLEY BIBB..... Professor of Architecture
- GEORGE MILLER STERNBERG, M.D., LL.D.,
Professor of Preventive Medicine
- ASAPH HALL, JR., Ph.D..... Professor of Astronomy
- ARTHUR AUGUSTIN SNYDER, M.D..... Clinical Professor of Surgery
- ALBERT MANN, Ph.D..... Professor of Botany
- SHEPHERD IVORY FRANZ, Ph.D.,
Professor of Physiology and Professor of Experimental Psychology
- CHARLES SIDNEY SMITH, Ph.D..... Professor of Greek and Latin
- WENDELL PHILIPS STAFFORD, A.M., LL.D..... Professor of Law
- WILLIAM CLINE BORDEN, M.D.,
Dean of the Medical School and Professor of Surgery
- JOHN RYDER WELLINGTON, M.D..... Clinical Professor of Surgery
- CHARLES STANLEY WHITE, M.D.,
Clinical Professor of Oral Surgery and Associate in Surgery
- WILLIAM KENNEDY BUTLER, A.M., M.D.... Professor of Ophthalmology
- BUCKNER MAGILL RANDOLPH, M.D.,
Professor of Materia Medica and Therapeutics
- LUTHER HALSEY REICHELDERFER, M.D..... Clinical Professor of Surgery
- JAMES DUDLEY MORGAN, A.B., M.D.,
Clinical and Associate Professor of Medicine
- LOUIS ANATOLE LA GARDE, M.D..... Professor of Military Surgery
- WILLIAM CARL RUEDIGER, Ph.D.,
Dean of Teachers College, and Professor of Educational Psychology
- ALFRED FRANCIS WILLIAM SCHMIDT, A.M.,
Librarian and Professor of German
- WILLIS LUTHER MOORE, Sc.D., LL.D., Professor of Practical Meteorology
- WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.,
Professor of Meteorological Physics

CHARLES NOBLE GREGORY, A.M., LL.D.,

Dean of the Law School and Professor of Law

GIDEON BROWN MILLER, S.B., M.D.... Clinical Professor of Gynecology

JULIAN MAYO CABELL, M.D..... Clinical Professor of Obstetrics

EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.... Professor of Philosophy

GEORGE WASHINGTON LITTLEHALES, C.E., Professor of Nautical Science

OSCAR BENWOOD HUNTER, M.D., Professor of Histology and Embryology
and Associate Professor of Anatomy

EDWIN VIVIAN DUNSTAN, C.E..... Professor of Civil Engineering

OSCAR ALEXANDER MECHLIN, C.E..... Professor of Civil Engineering

EVERETT FRASER, A.B., LL.B..... Professor of Law

JOHN BRADFORD BRIGGS, M.D.. Professor of Bacteriology and Pathology

W. SINCLAIR BOWEN, M.D..... Clinical Professor of Obstetrics

EDGAR PASQUAL COPELAND, M.D.,

Professor of Hygiene and Associate in Pediatrics

OSCAR ADDISON MACK McKIMMIE, M.D.,

Clinical Professor of Laryngology and Otology

LOUIS MACKALL, M.D..... Clinical Professor of Medicine

CARL LAWRENCE DAVIS, M.D..... Professor of Anatomy

JOHN WILMER LATIMER, LL.B..... Professor of Law

EDWARD RHODES STITT, A.B., M.D..... Professor of Tropical Medicine

ARTHUR BARTON CRANE, D.D.S. Professor of Oral Surgery

ASSOCIATE PROFESSORS

NOBLE PRICE BARNES, M.D., Associate Professor of Materia Medica and
Therapeutics, and Clinical Associate in Medicine

JOHN ROBERT DE FARGES, D.D.S..... Associate Professor of Dental
Metallurgy, Economics, Jurisprudence and Ethics

HURON WILLIS LAWSON, S.M., M.D..... Associate Professor of Obstetrics
and Associate Obstetrician in Chief to
the University Hospital and Dispensary

CHARLES TURK BASSETT, D.D.S.,

Associate Professor in Charge of Dental Infirmary

ALLEN SCOTT WOLFE, D.D.S.,

Associate Professor of Crown and Bridge Work

CADMUS LINDEN ODOR, D.D.S.,

Associate Professor of Operative Technics

WILLIAM FRANCIS LAWRENCE, D.D.S.,

Associate Professor of Prosthetic Technics

D. DE WITT BEEKMAN, D.D.S.,

Associate Professor of Materia Medica and Therapeutics

FRANK ADELBERT HORNADAY, S.B., M.D.,

Associate Professor of Chemistry

JOSEPH DUERSON STOUT, A.B., M.D.,

Associate Professor of Physiology and Pharmacology

- HENRY KNOX CRAIG, M.D., Associate Professor of Bacteriology and Pathology and Curator of the Museum
 GEORGE MILLER SHARP, D.D.S., Associate Professor of Orthodontia
 EUGENE ROGER STONE, D.D.S., Associate Professor of Oral Surgery

ASSOCIATES

- DANIEL WEBSTER PRENTISS, M.D., Clinical Associate in Surgery
 JOHN BENJAMIN NICHOLS, M.D., Associate in Medicine and Dietetics
 HARRY HAMPTON DONNALLY, A.M., M.D.,
 Clinical Associate in Pediatrics
 WILLIAM FRANCIS MATTINGLY SOWERS, A.B., M.D., Associate in Surgery
 HENRY RANDALL ELLIOTT, M.D.,
 Associate in Physiology and Pharmacology
 JOHN T. KELLEY, M.D., Clinical Associate in Obstetrics
 WALTER ASHBY FRANKLAND, M.D., Clinical Associate in Medicine
 J. LEWIS RIGGLES, M.D., Associate in Gynecology
 FRANK LEECH, M.D., Clinical Associate in Pediatrics
 WILLIAM CABELL MOORE, M.D., Associate in Medicine
 CHARLES AUGUSTUS SIMPSON, M.D., Associate in Dermatology
 COURSEN BAXTER CONKLIN, M.D., Associate in Medicine

ASSISTANT PROFESSORS

- NEVIL MONROE HOPKINS, Ph.D., Assistant Professor of Chemistry
 EDWIN ALLSTON HILL, Ph.D., Assistant Professor of Chemistry
 THOMAS MALCOLM PRICE, Ph.D., Assistant Professor of Chemistry
 RAY SMITH BASSLER, Ph.D., Assistant Professor of Geology
 OTIS DOW SWETT, S.M., LL.M., Assistant Professor of Chemistry
 CHARLES WARD MORTIMER, S.B., M.E.,
 Assistant Professor of Electrical Engineering
 FRANK CHARLES STARR, S.B., Assistant Professor of Civil Engineering
 HIRAM COLVER MCNEIL, Ph.D.,
 Assistant Professor of Physical Chemistry
 ROBERT RUSS KERN, A.B.,
 Assistant Professor of Economics and Sociology
 LEVI RUSSELL ALDEN, A.M., Assistant Professor of History
 HENRY CRAIG JONES, A.B., LL.B., Assistant Professor of Law
 MERTON LEROY FERSON, A.M., LL.B., Assistant Professor of Law
 LESLIE CLEVELAND MCNEMAR, A.B.,
 Assistant Professor of International Law and Political Science
 ALBERT LEWIS HARRIS, B.S. in Arch.,
 Assistant Professor of Architecture

RICHARD COBB, A.B.,

Secretary of the University and Assistant Professor of English

BEDFORD BROWN, S.B.,..... Assistant Professor of Architecture

LECTURERS AND INSTRUCTORS

EDWARD GRANT SEIBERT, M.D.,

Instructor in Laryngology and Ophthalmology

OSCAR PHELPS AUSTIN, A.M..... Lecturer on Commercial Geography

FREDERICK EUGENE FOWLE, JR., S.B..... Lecturer on Astro-Physics

WILLARD STANTON SMALL, Ph.D..... Lecturer on Education

WALTER HIBBARD MERRILL, M.D.... Instructor in Electro-Therapeutics

HOBART SOUTHWORTH DYE, M.D.,

Instructor in Laryngology and Otology

TRUMAN ABBE, M.D..... Instructor in Surgery

ALFRED GEISES BUHRMAN..... Clerk of the Moot Court

VIRGIL B. JACKSON, M.D..... Instructor in Gynecology

EDMUND THOMAS MURDAUGH FRANKLIN, M.D.... Instructor in Surgery

WILLIAM J. FRENCH, M.D..... Instructor in Materia Medica

CHARLES WILBUR HYDE, M.D., Instructor in Medicine and Anaesthesia

JOHN WINSLOW TAYLOR, D.D.S..... Instructor in Prosthetic Technics
and Demonstrator in the Dental Infirmary

ADAM KEMBLE, M.D..... Instructor in Genito-Urinary Surgery

HOMER GIFFORD FULLER, M.D.... Instructor in Genito-Urinary Surgery

CHARLES GARDNER SHOEMAKER, D.D.S.,

Instructor in Operative Technics

HENRY CISSEL YOUNG, D.D.S.... Instructor in Prosthetic Technics and
Demonstrator in the Dental Infirmary

HAYNER HASKELL GORDON, Ph.D., Instructor in Mechanical Engineering

ROBERT WILBUR MORSE, S.B.... Instructor in Mechanical Engineering

CLINE N. CHIPMAN, M.D..... Instructor in Anaesthesia

BENJAMIN RUSH LOGIE, M.D..... Instructor in Neurology

GEORGE HENRY SCHWINN, M.D., Instructor in Psychiatry and Neurology

MARK RITTENHOUSE WOODWARD, E.E.,

Instructor in Electrical Engineering

ALEXANDER YELVERTON PEYTON GARNETT, M.D.,

Instructor in Obstetrics

HARRY HYLAND KERR, M.D..... Instructor in Operative Surgery

HARRY GRANT HODGKINS, A.B..... Instructor in Mathematics

WILLIAM JOHNSTON MALLORY, M.D.... Instructor in Medicine

CAESARE LOUIS CONSTANTINI, D.D.S.,

In Charge of Clinical Instruction in Dentistry

ARTHUR DURDAN WEAKLEY, D.D.S.... Clinical Instructor in Dentistry

THOMAS LOCKE RUST, D.D.S..... Clinical Instructor in Dentistry

GEORGE BERTRAM ROPER MACDONALD, D.D.S.,

Clinical Instructor in Dentistry

WILLIAM CARL KILLINGER, D.D.S. . . . Clinical Instructor in Orthodontia
Z. WILBUR ALDERMAN, D.D.S.,

Clinical Instructor in Electro-Therapeutics

ROBERT EDWIN LAYTON, D.D.S. Clinical Instructor in Dentistry
JULIA THECKLA MACMILLAN, M.S. Instructor in Zoölogy
WILLIAM WRIGHT FRASER, A.B., B.L. Lecturer in Mathematics
CHARLES EDWARD VAN ORSTRAND, S.M. Lecturer on Mechanics
HARVEY LINCOLN CURTIS, Ph.D. Lecturer on Physics
ELIJAH WHITE TITUS, Phar.D., M.D. Instructor in Obstetrics
WILLIAM CABELL VAN VLECK, A.B., LL.B. Instructor in Law
PHILIP ROGERS HOOTON. Instructor in Architecture
MARIETTA STOCKARD, Lecturer on the Teaching of Children's Literature
DANIEL LE RAY BORDEN, M.D. Instructor in Surgery and Gynecology
ALBERT ELWOOD PAGAN, M.D. Instructor in Gynecology
ARTHUR DEERIN CALL, A.M. Lecturer on Elementary Education
JAMES WALTER BERNHARD, D.D.S. Instructor in Crown and Bridge Work
GEORGE TRAVER HARRINGTON, B.S. in Agri., BS. in Chem.,

Instructor in Botany

WILLIAM HENRY HUNTINGTON, M.D.,

Instructor in Laryngology and Otology

J. IRVING SLOAT, M.D. Instructor in Pharmacology
J. A. F. PFEIFFER, M.D. Special Instructor in Pathology
EDWARD CULLOM, A.M. Instructor in French
LOYD HALL SUTTON, S.B., LL.B. Instructor in Patent Law
EDWIN HENRY INGERSOLL, S.M. Instructor in Chemistry
WALTON COLCORD JOHN. Instructor in Spanish
BERNARD GLUECK, M.D. Instructor in Psychiatry
HENRY WILLIAM JAEGER, M.D. Instructor in Pharmacology
REBECCA SHERMAN ASHLEY Instructor in the History of Art
LOUIS COHEN, S.B. Lecturer on Electricity
EDGAR LEE HEWETT. Lecturer on Archaeology

ASSISTANTS AND DEMONSTRATORS

HENRY ALBERT LEPPER, B.S. in Chem. Assistant in Chemistry
GERTRUDE RICHARDSON BRIGHAM, A.B. Assistant in English
RALPH WEBSTER BENTON. Student Assistant in History
BOYCE RICHARDSON BOLTON,

Student Assistant in Histology and Embryology

JOHN FRANK EVANSHA. Student Assistant in Histology
ERWIN HARSCH. Student Assistant in Drawing and Field Work
JARRETT MATTHEW HUDDLESTON,

Student Assistant in Bacteriology and Pathology

HELEN GLADYS KAIN. Student Assistant in Chemistry
THERESA KARGER. Student Assistant in Chemistry
JOHN MORRIS LADD,

Student Assistant in Bacteriology and Pathology

ELLIS SMITH LEWIS, Student Assistant in Bacteriology and Pathology
 EDWARD WILLIAM MULLIGAN.....Student Assistant in Anatomy
 GEORGE WASHINGTON PHILLIPS.....Student Assistant in Chemistry
 FRITZ AUGUSTUS REUTER.....Student Assistant in Organic Chemistry
 RICHARD COVERT SATTERLEE.....Student Assistant in Anatomy
 JOHN HENRY STACHNIEWICZ, Student Assistant in General Chemistry
 ROBERT R. WALTON, Student Assistant in Pharmacology and Physiology
 CLARENCE EASTERLY WEAVER,
 Student Assistant in Physiology and Pharmacology

EDUCATIONAL ORGANIZATION

The University comprises:

THE DEPARTMENT OF ARTS AND SCIENCES

The School of Graduate Studies.
 Columbian College.
 The College of Engineering.
 The Teachers College.

THE PROFESSIONAL DEPARTMENTS.

The Law School.
 The Medical School.
 The Dental School.

THE ASSOCIATED COLLEGES

National College of Pharmacy.
 The College of Veterinary Medicine.

ANNUAL COMMENCEMENT

The Annual Commencement is held on the Wednesday following the Wednesday nearest the first day of June. Students who have satisfied the requirements for degrees subsequent to the June Commencement may be awarded such degrees privately in October or at the Winter Convocation on February 22.

THE UNIVERSITY LIBRARY

The University Library comprises the Library of the Department of Arts and Sciences, the Law Library, and the Medical Library. It contains 45,740 volumes.

In addition to its general collections the Library of the Department of Arts and Sciences contains the library of the late Professor Richard Heinzel, of the University of Vienna, containing 7200 books and pamphlets in Germanic philology and literature, and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7900 books and pamphlets in Greek and Roman literature, archaeology, and history; the Mount Vernon Alcove containing 4000 volumes in political history, international law, and the social sciences; and the divisional collections in engineering and mechanic arts and in education. It is open from 9 a.m. to 6.40 p.m.

The Law Library, containing 5901 volumes, is open from 9 a.m. to 10 p.m.

The Medical Library, containing 1618 volumes, is open from 9 a.m. to 10.30 p.m.

PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

PART II
DEPARTMENTS OF THE UNIVERSITY

DEPARTMENT OF ART AND SCIENCES

FACULTY

CHARLES HERBERT STOCKTON, LL.D.....PRESIDENT OF THE UNIVERSITY
HOWARD LINCOLN HODGKINS, Ph.D.....Dean, Dean of the College of
Engineering, and Professor of Mathematics

*THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.,
Professor of Zoology, Emeritus

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German

CHARLES EDWARD MUNROE, Ph.D., LL.D.,
Dean of the School of Graduate Studies and Professor of Chemistry

*GEORGE PERKINS MERRILL, Ph.D.,
Professor of Geology and Mineralogy

*FRANK WIGGLESWORTH CLARKE, Sc.D., Professor of Mineral Chemistry

WILLIAM ALLEN WILBUR, A.M.,
Dean of Columbian College and Professor of English

CHARLES CLINTON SWISHER, Ph.D., LL.D.... Professor of History

*MITCHELL CARROLL, Ph.D.,
Professor of Archaeology and the History of Art

*PAUL BARTSCH, Ph.D.....Professor of Zoology

GEORGE NEELY HENNING, A.M.....Professor of Romance Languages

ALBERT BURNLEY BIBB.....Professor of Architecture

*GEORGE MILLER STERNBERG, M.D., LL.D.,
Professor of Preventive Medicine

*ASAPH HALL, JR., Ph.D.....Professor of Astronomy

*ALBERT MANN, Ph.D.....Professor of Botany

CHARLES SIDNEY SMITH, Ph.D.....Professor of Greek and Latin

WILLIAM CARL RUEDIGER, Ph.D.,
Dean of Teachers College and Professor of Educational Psychology

ALFRED FRANCIS WILLIAM SCHMIDT, A.M.... Professor of German

*WILLIS LUTHER MOORE, Sc.D., LL.D.,
Professor of Practical Meteorology

*WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.,
Professor of Meteorological Physics

CHARLES NOBLE GREGORY, A.M., LL.D.....Professor of Law

EDWARD ELLIOTT RICHARDSON, M.D., Ph.D.....Professor of Philosophy

*GEORGE WASHINGTON LITTLEHALES, C.E.,
Professor of Nautical Science

* These professors are specialists who give only part of their time to the University.

EDWIN VIVIAN DUNSTAN, C.E.	Professor of Civil Engineering
OSCAR ALEXANDER MECHLIN, C.E.	Professor of Civil Engineering
NEVIL MUNROE HOPKINS, Ph.D.	Assistant Professor of Chemistry
EDWIN ALLSTON HILL, Ph.D.	Assistant Professor of Chemistry
THOMAS MALCOLM PRICE, Ph.D.	Assistant Professor of Chemistry
RAY SMITH BASSLER, Ph.D.	Assistant Professor of Geology
OTIS DOW SWETT, S.M., LL.M.	Assistant Professor of Chemistry
CHARLES WARD MORTIMER, S.B., M.E.,	Assistant Professor of Electrical Engineering
FRANK CHARLES STARR, S.B.,	Assistant Professor of Civil Engineering
HIRAM COLVER MCNEIL, Ph.D.,	Assistant Professor of Physical Chemistry
ROBERT RUSS KERN, A.B.,	Assistant Professor of Economics and Sociology
LEVI RUSSELL ALDEN, A.M.	Assistant Professor of History
LESLIE CLEVELAND MCNEMAR, A.B.,	Assistant Professor of International Law and Political Science
ALBERT LEWIS HARRIS, B.S. in Arch.,	Assistant Professor of Architecture
RICHARD COBB, A.B.	Assistant Professor of English
BEDFORD BROWN, S.B.	Assistant Professor of Architecture
OSCAR PHELPS AUSTIN, A.M.	Lecturer on Commercial Geography
FREDERICK EUGENE FOWLE, Jr., S.B.	Lecturer on Astro-Physics
WILLIAM STANTON SMALL, Ph.D.	Lecturer on Education
HAYNER HASKELL GORDON, Ph.D.,	Instructor in Mechanical Engineering
ROBERT WILBUR MORSE, S.B.	Instructor in Mechanical Engineering
MARK RITTENHOUSE WOODWARD, E.E.,	Instructor in Electrical Engineering
HARRY GRANT HODGKINS, A.B.	Instructor in Mathematics
JULIA THECKLA MACMILLAN, S.M.	Instructor in Zoology
WILLIAM WRIGHT FRASER, A.B., B.L.	Lecturer in Mathematics
ALTON LEWIN KIBLER, Ph.D.	Instructor in Chemistry
CHARLES EDWIN VAN ORSTRAND, S.M.	Lecturer on Mechanics
HARVEY LINCOLN CURTIS, Ph.D.	Lecturer on Physics
PHILIP ROGERS HOOTON	Instructor in Architecture
MARIETTA STOCKARD	Lecturer on the Teaching of Children's Literature
ARTHUR DEERIN CALL, A.M.	Lecturer on Elementary Education
GEORGE TRAVER HARRINGTON, B.S. in Agr., B.S. in Chem.,	Instructor in Botany
REBECCA SHERMAN ASHLEY	Instructor in the History of Art
LOUIS COHEN, S.B.	Lecturer on Electricity

* These professors are specialists who give only part of their time to the University.

Faculty of the School of Graduate Studies

President Stockton, Dean Munroe, Professors Gill, Hodgkins, Schoenfeld, Merrill, Clarke, Wilbur, Swisher, Carroll, Bartsch, Henning, Sternberg, Mann, Smith, Price, Ruediger, Schmidt, Moore, Humphreys, Gregory, Richardson, Littlehales, Dunstan, Mechlin, Assistant Professors Hopkins, Hill, Bassler, Mortimer, McNeil, Kern, Alden; Messrs. Van Orstrand, Curtis.

Faculty of Columbian College

President Stockton, Dean Wilbur, Professors Hodgkins, Schoenfeld, Munroe, Merrill, Swisher, Carroll, Bartsch, Henning, Smith, Ruediger, Schmidt, Richardson; Assistant Professors Bassler, Swett, Kern, Cobb; Mr. Woodward, Miss Macmillan, Messrs. Harrington, John, and Cullom.

Faculty of College of Engineering

President Stockton, Dean Hodgkins, Professors Schoenfeld, Munroe, Merrill, Wilbur, Henning, Schmidt, Bibb, Dunstan, Mechlin; Assistant Professors Swett, Starr, Mortimer, Harris, Brown; Messrs. Gordon, Morse, Woodward.

Faculty of Teachers College

President Stockton, Dean Ruediger, Professors Hodgkins, Schoenfeld, Munroe, Wilbur, Swisher, Bartsch, Henning, Smith, Schmidt, Richardson; Assistant Professors Kern, Cobb; Messrs. Small, Call; Miss Stockard.

SCHOOL OF GRADUATE STUDIES

HIGHER DEGREES

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (S.M.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), and Doctor of Philosophy (Ph.D.).

ADMISSION

Candidates for admission to courses for higher degrees must make application to the Dean of the School of Graduate Studies on application blanks, which may be obtained of him or of the Secretary of the University. Candidates must present the diplomas they hold, or certificates that they have received such diplomas, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the course of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's or other higher degree sought. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated University subjects approved by the Faculty upon recommendation of the professors in charge and to present a satisfactory thesis. Only one of the minor topics may be selected from the University subject which includes the major topic. Work for which this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete three full courses of studies, of two or three hours each, distributed

among three University subjects, not more than six hours of which shall be given to any one subject. These subjects must have the approval of the Faculty on the recommendation of the professors in charge. The candidate must also present a thesis in the field to which the major subject belongs.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done in satisfaction of the requirements for the Bachelor's degree shall be counted again for a higher degree.

HIGHER DEGREES IN ENGINEERING

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued, and present an acceptable thesis, together with a bibliography. Three full courses is the minimum required as constituting a full year's work. The courses chosen must be passed upon by the Faculty of Graduate Studies and have the approval of the professors under whom they are to be taken.

DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred upon a student who has pursued specialized courses in University Subjects, has engaged in research under university auspices for a period of not less than three years, has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for this degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for his graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar

to that required here, but one year, preferably the last, must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

The candidate for the Doctor's degree shall offer three topics from the University Subjects—one major and two collateral minor studies, one of which minors may be in the subject which includes the major topic—the combination to be approved by the Faculty of Graduate Studies. These must be pursued under the guidance of a committee consisting of the professors in charge of the University Subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a thesis upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

EXAMINATIONS

Candidates must pass written examinations upon all their topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final written examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken. If a candidate has satisfactorily passed his final written examination, he may be permitted to complete his thesis away from the University.

DEFENSE OF THE THESIS

Before a candidate can be recommended to the Board of Trustees for the Doctor of Philosophy degree, he must have successfully defended his thesis in public before a Board of Experts not officially connected with the University. Before the candidate can be permitted to undertake the defense of his thesis, the thesis must have been favorably reported on and recommended for defense by the professor having supervision over the candidate's major topic, and by a co-referee appointed from the Faculty of Graduate Studies.

The subjects from which the candidate's selection may be made, as the Faculty may determine in each case, are as follows:

Applied Mathematics, Archaeology, Architecture, Astronomy, Astro-Physics, Bacteriology, Botany, Chemistry, Economics, Education,

Civil Engineering, Electrical Engineering, Hydraulic Engineering, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Histology and Embryology, History, History of Art, International Law and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Nautical Science, Pathology, Philosophy, Physics, Physiology and Pharmacology, Political Sciences, Preventive Medicine, Psychology, Romance Language and Literature, Sociology, Zoology.

REGULATIONS REGARDING THESES

Theses in their final form must be presented to the Dean on the dates announced in the University Calendar. They must be typewritten on official thesis paper, which may be obtained from the Treasurer of the University. The thesis will be presented by the Dean to the Chairman of the Committee on the candidate and the co-referee appointed from and by the Faculty for examination as to its merits when, on a favorable report by them, it may be defended in the Public Disputation. After their acceptance, theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but the authors of them are permitted to make copies. The candidate shall arrange, to the satisfaction of the Faculty, to print his thesis under the supervision of the professor in charge of his major subject, within one year after the degree is granted, and he shall present one hundred copies to the University, to be distributed among institutions of learning.

DOCTORATE DISPUTATIONS

The Twenty-third Doctorate Disputation was held publicly in University Hall, May 19, 1913. The thesis that was successfully defended, the candidate and the members of the board of experts were as follows:

Thesis: The Evangelical Revival: A Vital Factor in the Reconstruction of English Life in the Eighteenth Century. By Rev. ELMER EUGENE MARSHALL, A.B., 1889, Ohio Wesleyan University, S.T.B., 1894, Boston University. Before REV. WILLIAM A. HAGGERTY, A.B., A.M., Ph.D., Pastor Petworth Methodist Episcopal Church; WILLIAM M. DAVIDSON, A.B., LL.D., Superintendent Public Schools, D.C.; Rev. LUTHER HESS WARING, A.B., A.M., Ph.D., Pastor Evangelical Lutheran Church of Georgetown. Professor CHARLES CLINTON SWISHER, Ph.D., LL.D., presiding.

The record of the Twenty-Fourth Doctorate Disputation, held publicly on September 29, 1913, was as follows:

Thesis: The Commodities' Clause: A Treatise on the Development and Enactment of the Commodities' Clause and its Construc-

tion when Applied to Interstate Railroads Engaged in the Coal Industry. By THOMAS LATIMER KIBLER, A.B., 1904, Randolph-Macon College; A.M., 1908, The George Washington University. Before MARTIN A. KNAPP, A.M., LL.D., Presiding Judge, U. S. Court of Commerce; Honorable JOHN H. MARBLE, Interstate Commerce Commissioner; Honorable ROBERT F. BROUSSARD, M.C., Senator-Elect. BLACKBURN ESTERLINE, Special Assistant to the Attorney General, presiding.

THE COLLEGES

The College session of 1914-15 begins Wednesday, September 30, 1914.
The Colleges are open to men and women.

ADMISSION

Every applicant for admission is required to present a testimonial of good character and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificates of the College Entrance Examination Board will be accepted.

The requirement for admission is a four-year high-school course, or its equivalent, amounting to fifteen "units." For prescribed studies see the specifications of each college.

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

ENTRANCE EXAMINATIONS

The regular examinations for admission are held in May.
The following is the schedule for 1914:

Monday, May 25, 1914

Elementary Latin.....	9.00-11.00
Plane Geometry.....	11.00- 1.00
Physics.....	2.00- 4.00
Greek.....	2.00- 5.00

Tuesday, May 26

Elementary Algebra.....	9.00-11.00
Elementary French.....	11.00- 1.00
Elementary German.....	2.00- 4.00
Ancient History.....	4.00- 6.00

Wednesday, May 27

Plane Trigonometry.....	9.00-11.00
Advanced French, Advanced German.....	11.00- 1.00
English.....	2.00- 5.00

Thursday, May 28

Advanced Algebra.....	9.00-11.00
Solid Geometry.....	11.00- 1.00
Chemistry; Advanced Latin.....	2.00- 4.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

Candidates from the Washington high schools for the Kendall and the University Scholarships will be examined on nine and one-half units. These units upon which the examination will be given are the following: the specified subjects—English (three units), Mathematics (two and one-half units), and one other language (two units); the remaining two units will be in language, history, mathematics, physics, chemistry, biology—as the candidate shall elect. The remainder of the fifteen units must be certified from the high schools.

DEFINITION OF REQUIREMENTS

English

(Three units)

The requirements in English are those recommended by the Conference on Uniform Entrance Requirements in English. These recommendations are as follows:

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

English Grammar and Composition

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school, and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, paragraphs, and the different kinds of whole composition, including letter-writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument based upon simple outlines.

It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature

The second object is sought by means of two lists of books, headed respectively, *reading* and *study*, from which may be framed a progressive course in literature covering four years. In connection with both lists the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages, both in verse and in prose. As an aid to literary appreciation he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

1. *Reading*.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units* are to be selected, two from each group:

a. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings; and Daniel; together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's Æneid. The Odyssey, Iliad, and Æneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

b. Shakespeare's Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

c. Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; either Scott's Ivanhoe or Scott's Quentin Durward; Hawthorne's House of the Seven Gables; either Dickens' David Copperfield or Dickens' Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

d. Bunyan's Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings;

*Each unit is set off by semicolons.

Thackeray's English Humourists; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's *Walden* or Huxley's *Autobiography* and selections from *Lay Sermons*, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's *Inland Voyage and Travels with a Donkey*.

e. *Palgrave's Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *Deserted Village*; Coleridge's *Ancient Mariner* and Lowell's *Vision of Sir Launfal*; Scott's *Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *Prisoner of Chillon*; *Palgrave's Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Courtship of Miles Standish*, and Whittier's *Snow Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and the *Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

2. *Study*.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, and *Comus*; either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

Examination

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The first part of the examination will be upon ten units chosen in accordance with the plan described earlier, from the lists headed *reading*; and it may include also questions upon grammar and the simpler principles of rhetoric, and a short composition upon some topic drawn from the student's general knowledge or experience. On the books prescribed for reading, the form of the examination will usually be the writing of short paragraphs on several topics which the candidate may choose out of a considerable number. These topics will involve such knowledge and appreciation of plot, character-development, and other qualities of style and treatment as may be fairly expected of boys and girls. In

grammar and rhetoric, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors.

The second part of the examination will include composition and those books comprised in the list headed *study*. The test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books prescribed for *study*, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps five or six, from which the candidate may make his own selections. The test on the books prescribed for study will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

Latin

Elementary (two units)

a. I. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verb; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

II. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based on Caesar.

b. Caesar: Any four books of the Gallic War, preferably the first four.

Advanced (two units)

a. Cicero: Any six orations from the following list, but preferably the first six mentioned. The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Seotius, Ligarius, the Fourteenth Philippic.

b. Virgil: The first six books of *Æneid*.

c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

Greek

Elementary (two units)

a. I. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

II. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions. The examination in grammar and prose composition will be based on the first two books of Xenophon's *Anabasis*.

b. Xenophon: The first four books of the *Anabasis*.

Advanced (one unit)

a. Homer: The first three books of the *Iliad* (omitting II, 494, to end).

b. Sight Translation, based on prose of no greater difficulty than Xenophon's *Anabasis*.

French

Elementary (two units)

Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

Advanced (two units)

Candidates in advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

Spanish

(Two units)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

German

Elementary (two units)

Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

Advanced (two units)

Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

History

In this subject special importance is attached to preparation in geography.

Ancient (one unit)

a. Greek History, through the Roman Conquest; as much as is contained in Myer's, Bottsford's, or West's History of Greece.

b. Roman History; as much as is contained in Allen's, Bottsford's or West's History of the Roman People.

Mediaeval and Modern European History (one unit)

As much as is contained in Myer's History of Mediaeval and Modern Europe.

English History (one unit)

As much as is contained in Larned's or Cheyney's History of England.

American History with the Elements of Civil Government (one unit)

As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

Mathematics

Elementary Algebra (one and one-half units)

I. Algebra to Quadratics: The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest

common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

II. Quadratics, etc.: Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

Advanced Algebra (one-half unit)

The progressions; the elementary treatment of permutations and combinations; the use of four and five place tables and logarithms; undetermined coefficients; the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents; the elementary treatment of the theory of equations.

Plane Geometry (one unit)

General text propositions, including the solution of simple original exercises and numerical problems.

Solid Geometry (one-half unit)

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles and the measurement of surfaces and solids.

Plane Trigonometry (one-half unit)

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

Physics

(One unit)

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note-book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

Chemistry

(One unit)

The candidate's preparation in chemistry should include:

a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board. The laboratory note-book must be submitted for inspection.

b. Instruction by lecture-table demonstrations.

c. The study of at least one modern text-book.

Requirements.—The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potassium, sodium, calcium, magnesium, zinc, copper, mercury, silver, aluminum, lead, tin, iron, manganese, chromium.*

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements, solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

Additional Subjects

Certificates will be accepted in botany, zoology, physiology, physiography, political economy, drawing, music, and other accredited subjects in secondary schools.

Manual-training High School Subjects

Technical subjects in manual-training high schools, or schools of similar grade, when duly certified, will be credited as follows:

Shopwork (not exceeding two units), domestic science and domestic art (not exceeding two units).

Business High School Subjects

Commercial subjects in business high schools or schools of similar grade, when duly certified, will be credited as follows:

Accounting and Finance. (One unit.)

Bookkeeping. (Two units.)

Business Organization. (One unit.)

Commercial Law. (One unit.)

Government and Industrial Problems. (One-half unit.)

Commercial History. (One-half unit.)

Commercial and Physical Geography. (One-half unit.)

ADMISSION TO ADVANCED STANDING

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

SPECIAL STUDENTS

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

SCHOLARSHIPS AND PRIZES

Applications for scholarships should be filed with the Dean of the College in which the student is registered not later than September fifteenth. All Scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term, or whose deportment is unsatisfactory, will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked. All designations to scholarships are awarded by the President's Council on the recommendation of a Dean.

Scholarships for Competition

The University offers the following scholarships to be awarded on competitive examination given at the time of the May entrance examinations. Holders of these scholarships are expected to pursue a regular

course in one of the colleges of the Department of Arts and Sciences. No scholarship is awarded to a candidate whose examination average is below 80 per cent.

Kendall Scholarship.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that member of the graduating class of any of the Washington High Schools who attains the highest average in the entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory, and graduation fees.

University Scholarships.—The University offers also six scholarships, to be awarded annually to members of the graduating classes of any of the Washington High Schools. These scholarships continue throughout the undergraduate course, and students holding them pay only the matriculation, library, laboratory, and graduation fees.

Scholarships for Assignment

Davis Scholarship.—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

Mary Lowell Stone Scholarship.—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University.

Maria M. Carter Scholarship.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

Farnham Scholarship.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

Withington Scholarship.—This scholarship was founded in 1830, by the New York Baptist Theological Seminary, to be known as the Withington scholarship. It has an annual stipend in tuition fees of sixty dollars.

Walker Scholarship.—This scholarship was founded in 1824 by William Walker, Esq., of Putnam County, Georgia. It carries an annual stipend of one hundred dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

Morehouse Scholarship.—This scholarship was founded by Mr. A. Morehouse, of Washington, D. C., in 1861. It carries an annual stipend of sixty dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

Henry Harding Carter Scholarships.—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consists of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

Admiral Powell Scholarships.—The Admiral Powell Scholarships were founded by Admiral Powell, U. S. Navy. The income from this

endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, to warrant officers who are preparing for examination for appointment as Ensign, or to those who desire to fit themselves for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	HOURS
Navigation and Nautical Astronomy.....	2
Algebra and Geometry.....	3
Trigonometry.....	1½
Mechanical and Machine Drawing.....	4
English.....	3
French.....	3
German.....	3
Spanish.....	3
International Law.....	3
Commercial Geography.....	2
Boilers and Power Plants.....	3
Measurement of Power.....	2
Electricity.....	3
Electrical Engineering.....	6

Ministerial Aid.—The University authorizes the remission of a stated amount in tuition fees, to be called Ministerial Aid, which may be given to students, resident in the District of Columbia or its immediate vicinity in the regular courses of Columbian College, preparing for the ministry and not yet ordained. Any student receiving Ministerial Aid may be called upon for clerical or like work to the extent of not more than one hour a week for every ten dollars of tuition remitted, and of not more than four hours in any one week.

University Aid.—The University authorizes the remission of a stated amount in tuition fees, to be called University Aid, which may be given

to undergraduate students in regular courses in the Department of Arts and Sciences, financially dependent on parents, who are residents of the District of Columbia or its immediate vicinity and whose circumstances warrant pecuniary assistance. Any student receiving University Aid may be called upon for clerical or like work to the extent of not more than one hour a week for every ten dollars of tuition remitted, and for not more than four hours in any one week.

Columbian Women Loan Fund.—The Columbian Women have established a fund from which money is loaned to women students, preference being given to women who have already begun work in the University and who need assistance in continuing it. The administration of the fund remains with the Columbian Women.

PRIZES

(Only candidates for degrees may compete for these prizes.)

Staughton and Elton Prizes.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

Ruggles Prizes.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

Davis Prizes.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

Daughters of the American Revolution Prizes.—These prizes founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediaeval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

The Thomas F. Walsh Prize.—This prize, established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the regular classes of Mediaeval, Modern European, English, and American History, shall produce the best essay upon a designated period of the History of Ireland.

E. K. Cutter Prize.—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that

member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

Willie E. Fitch Prize.—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

The Gardiner G. Hubbard Memorial Prize.—This is a prize in American History established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that member of the graduating class who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

Muth Prize.—Geo. F. Muth and Company offer a set of drawing instruments to the student taking Advanced Mechanical Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

Colonial History Prize.—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for excellence in American Colonial History. This prize will be awarded by the professor of History for general excellence in this subject as shown by class standing, by special essays, and by such other tests as shall be prescribed.

James Macbride Sterrett, Jr., Prize.—Founded by Professor James Macbride Sterrett in memory of his son, consists of a gold medal annually awarded to that student taking Course I in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

The Chi Omega Prize in Philosophy.—An annual prize of fifteen dollars is offered by the Phi Alpha Chapter of the Chi Omega Fraternity for the best essay on a philosophical subject to be announced at the close of the preceding academic year by the Committee in charge. Essays must meet the requirements defined by the Committee and be submitted on or before April 1. Only women students who are members of a senior class in the Department of Arts and Sciences, and who have previously completed the courses in General Psychology, Logic, and the History of Philosophy, are eligible to compete.

Chi Omega Prize in Sociology.—An annual prize of \$15.00 is offered by the Chi Omega Fraternity for the best essay on a sociological subject. All women students registered in the courses in Sociology are eligible to compete for this prize. The subjects of the essays are to be chosen by the competitors with the approval of the Professor of Sociology. The prize will be awarded by a committee of three, consisting of the Professor of Sociology, the Dean of Columbian College, and a third member selected by these two. Essays in competition for this prize must be submitted to the Professor of Sociology on or before May 1st.

Davis Prize Speaking

The Davis Prize Speaking is held on the Tuesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of five dollars, of ten dollars, and of fifteen dollars annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of Columbian College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Faculty of the Columbian College.

PRIZES AWARDED. 1912-13.

Staughton Prize.....	ARTHUR HUBER REDFIELD
Ruggles Prizes:	
First Prize.....	LOUIS ARCHER MAXSON
Second Prize.....	ERWIN HARSCH
Davis Prizes:	
First Prize.....	REX EMIR KINSELL
Second Prize.....	HILDA LOUISE ULRICKSON
Third Prize.....	ARTHUR HUBER REDFIELD
Daughters of the American Revolution }	LEILA FORDHAM SCOTT
Prizes.....	OLIVIA ALEXANDER TAYLOR
Thomas F. Walsh Prize.....	LULU MIGNONNE McCABE
E. K. Cutter Prize.....	LULU MIGNONNE McCABE
Willie E. Fitch Prize.....	JOHN BROCKWELL
Gardiner G. Hubbard Memorial Prize.....	ARTHUR HUBER REDFIELD
Muth Prize.....	EDWARD BILMER NICKLES
Colonial History Prize.....	EVA PHELPS KELLEY
James McBride Sterrett, Jr. Prize.....	ALBERT THURSTON ST. CLAIR
Chi Omega Prize in Philosophy.....	LULU MIGNONNE McCABE
Sigma Kappa Prize.....	ELIZABETH WEBER
Medal for Intercollegiate Debating.....	HARRY GABRIEL SELTZER

RELIGIOUS WORK

The student movement in Association work is represented by the Young Men's Christian Association of the University, which was organized in the fall of 1905. The Association plans and conducts religious work among the men of the University. The Association calendar includes Bible study clubs, a weekly chapel service, and occasional men's meetings.

Similar lines of religious work are conducted among the women students by the Young Women's Christian Association.

College Chapel

Chapel Services are held at 12.20 p.m., Monday, Wednesday, and Friday, throughout the academic year.

The Deans of the Colleges will confer with students as they may desire on questions concerning their welfare and will co-operate with them in all ways to make the college life one of personal helpfulness.

FEES

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum for each hour per week of undergraduate courses leading to the degrees of A.B. and S.B.....	10
The maximum fee charged in any one year is \$150.	
4. Tuition fee per annum for graduate courses leading to the degrees of A.M., S.M., C.E., E.E., M.E., and Ph.D.....	150
Each separate topic.....	50
Where candidates for higher degrees exceed the minimum time limit they may be liable for an additional charge of \$50 per annum for each topic pursued by them.	
5. Registration fee for students taking problems of the Beaux Arts Society.....	2
6. Laboratory courses:	
Material fees:	
Experimental Psychology.....	2
Geology 1, Zoology, Botany, each.....	5
Chemistry 2, 3, 7, and 28; Electrical Engineering; Physics, each.....	10
Chemistry 4 (Assaying).....	20
Chemistry, except 2, 3, 4, 7, and 28, each.....	25
Deposits to cover breakage of apparatus issued, the amount paid in excess of breakage to be returned:	
Chemistry, 2, 3, 7, and 28, each.....	10
Chemistry, except 2, 3, 4, 7, and 28, each.....	25
7. Fee for graduation.....	10
8. Tuition fee for the following special course, not taken by candidates for a degree:	
Chemistry 4 (Assaying).....	40
9. In determining tuition fees, three hours of laboratory work in Chemistry, and two hours of laboratory work in other subjects count as one hour.	
10. Fee for certificates under the seal of the University.....	2

No registration will be accepted for less than a full semester, and no change in the courses undertaken at the time of registration will be

made unless approved by the Dean. *Withdrawals during the semester will be granted only on recommendation of the Dean and the approval of the President.*

PAYMENT OF FEES

Matriculation, library, and other special fees, and laboratory deposits are due in full in advance. Tuition and laboratory material fees may be paid in monthly installments in advance. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current academic year. All fees are payable at the office of the Treasurer of the University, 2024 G Street.

BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

For catalogues, application blanks, and further information, address

THE SECRETARY,
The George Washington University,
2023 G Street, Washington, D. C.

COLUMBIAN COLLEGE

ADMISSION

Candidates for admission to the Freshman Class in Columbian College must meet the general admission requirements (p. 51) of fifteen units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirement must include English, 3 units; Mathematics, 2½ units; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

For admission to advanced standing or as special students, see p. 60.

REQUIREMENTS FOR DEGREES

The undergraduate degrees offered by Columbian College are Bachelor of Arts, Bachelor of Science in Chemistry, and Bachelor of Science in Medicine. To be recommended for any one of these degrees, the student must be registered for at least one academic year in Columbian College; must satisfy the admission requirements, and must complete at least sixty "hours" of undergraduate courses. An "hour" of credit is one recitation or lecture a week or one laboratory period a week for one academic year. No time limit for the course is prescribed and the degree is given when the total of prescribed and elective studies is completed.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60) per cent of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the student shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

"That the Faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With Distinction' to students who shall have fulfilled the conditions above specified."

FOR THE DEGREE OF BACHELOR OF ARTS

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study including a group of prescribed subjects, and aggregating at least sixty "hours."

There are four groups of prescribed subjects for the first two years of the college course. Every candidate for the degree of Bachelor of Arts selects one of these groups of prescribed subjects, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

The studies of the last two years are elective, subject to such administrative supervision as will insure the general consistency and the liberal character of the courses selected.

The scope of the four groups of prescribed subjects is a provision alike for the diversity in the subjects of the secondary school curriculum leading to a college course, and the needs of the various graduate and professional courses of study in the University for which the college course is a preparation.

Group I emphasizes Latin and Greek studies, and it would naturally be taken by students whose preparatory work has included four years of Latin. Group II emphasizes the Modern Languages, affording to students whose preparation has not included Latin the humanistic influences of the literatures of the Modern Languages. Group III emphasizes Mathematics and the Natural Sciences, and would naturally be selected by the student whose college preparation has been scientific rather than literary. Group IV consists of such studies as would constitute needed preparation for the Department of Law, or further study in the political sciences.

(NOTE—Whenever in the following groups French or German is taken, if it is elementary, the same language shall be continued the succeeding year.)

Group I

	HOURS
English.....	6
History.....	3
Languages*.....	9
Latin.....	6
Mathematics.....	3
Psychology and Logic.....	3
Electives.....	30

Group II

	HOURS
English.....	6
French.....	3
German.....	6
History.....	6
Mathematics or Science.....	3
Psychology and Logic.....	3
Romance Language.....	3
Electives.....	30

* To be elected from Greek, French, German.

Group III

	HOURS
English.....	3
History.....	3
Mathematics.....	6
Modern Languages.....	6
Psychology and Logic.....	3
Science.....	9
Electives.....	30

Group IV

	HOURS
Economics.....	3
English.....	3
History.....	6
Mathematics.....	3
Modern Languages or Latin.....	6
Political Science.....	6
Psychology and Logic.....	3
Electives.....	30

FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY**Freshman Year**

	HOURS
Chemistry, 1, 2.....	5
English, 1 or 2.....	3
Mathematics, 3 or 6.....	3
French or German.....	3
Geology, 1.....	2

Sophomore Year

	HOURS
Chemistry, 3, 20.....	5
French or German.....	3
Mathematics, 9 or 12.....	3
Physics, 1, 2.....	5

Junior Year

	HOURS
Chemistry, 21, (4), 23.....	6
French or German.....	3
Mathematics, 20 or 21.....	3
Electrical Engineering, 7.....	3

Senior Year

	HOURS
Chemistry, 6, 24, 25, 26 or 27.....	9
Economics or History.....	3
Geology, 2.....	2

POLITICAL SCIENCE COURSES

Columbian College offers systematic instruction in the various branches of the political sciences. This education gives a training that will fit for consular and diplomatic positions and for the public service of the United States, while imparting that general culture and equipment necessary for efficient citizenship and the intelligent grasp of public questions. It is also a suitable training for those who expect to enter commercial life, or to engage subsequently in the study of law.

Regular students who are preparing for the Government Service should register for Group IV of the curriculum requirements for the degree of Bachelor of Arts, and should elect, also, the subjects named in Section 2 of the "Regulations Governing Examinations Promulgated by the Board of Examiners, December 13, 1906."

Special students who are preparing for the Consular Service examinations should register for such courses as relate to subjects named in Section 2, of the Government Regulations.

An Executive order of June 27, 1906, governing appointments and promotions in the Consular Service of the United States, included the following provisions of special interest to students having in view the Consular Service:

The Secretary of State, or such officer of the Department of State as the President shall designate, the Director of the Consular Service,* the Chief of the Consular Bureau,* and the Chief Examiner of the Civil Service Commission, or some person whom said Commission shall designate, shall constitute a Board of Examiners for admission to the consular service.

It shall be the duty of the Board of Examiners to formulate rules for and hold examinations of applicants for admission to the consular service.

The scope and method of the examinations shall be determined by the Board of Examiners, but among the subjects shall be included at least one modern language other than English; the natural, industrial and commercial resources and the commerce of the United States, especially with reference to the possibilities of increasing and extending the trade of the United States with foreign countries; political economy; elements of international, commercial and maritime law.

Examination papers shall be rated on a scale of 100, and no person rated at less than 80 shall be eligible for certification.

No one shall be examined who is under twenty-one or over fifty years of age, or who is not a citizen of the United States, or who is not of good character and habits and physically and mentally qualified for the proper performance of consular work, or who has not been specially designated by the President for appointment to the consular service subject to examination.

*As amended by Executive order of December 8, 1909.

REGULATIONS GOVERNING EXAMINATIONS PROMULGATED BY THE
BOARD OF EXAMINERS, DECEMBER 13, 1906

1. The examinations will be the same for all grades and will be to determine a candidate's eligibility for appointment in the consular service, irrespective of the grade for which he may have been designated for examination and without regard to any particular office for which he may be selected.
2. The examinations will consist of an oral and a written one, the two counting equally. The object of the oral examination will be to determine the candidate's business ability, alertness, general contemporary information, and natural fitness for the service, including moral, mental, and physical qualifications, character, address, and general education and good command of English. In this part of the examination the applications previously filed will be given due weight by the Board of Examiners, especially as evidence of the applicant's business experience and ability. The written examination will include those subjects mentioned in the Executive order, to wit, at least one modern language other than English—French, German, or Spanish;* the natural, industrial, and commercial resources and the commerce of the United States, especially with reference to possibilities of increasing and extending the foreign trade of the United States; political economy, and the elements of international, commercial, and maritime law. It will likewise include American history, government, and institutions; political and commercial geography; arithmetic (as used in commercial statistics, tariff calculations, exchange, accounts, etc.); the modern history, since 1850, of Europe, Latin America, and the Far East, with particular attention to political, commercial, and economic tendencies. In the written examination, composition, grammar, punctuation, spelling, and writing will be given attention.
3. To become eligible for appointment, except as student interpreter, in a country where the United States exercises extraterritorial jurisdiction, the applicant must pass the examination outlined above, but supplemented by questions to determine his knowledge of the fundamental principles of common law, the rules of evidence, and the trial of civil and criminal cases.
4. The examinations to be given candidates for appointment as student interpreters will follow the same course as in the case of other consular officers, provided, however, that no one will be examined for admission to the consular service as a student interpreter who is not between the ages of nineteen and twenty-six, inclusive, and unmarried; and, provided further, that upon appointment each student interpreter shall sign an agreement to continue in the service so long as his services may be required, within a period of five years.
5. Upon the conclusion of the examinations the names of the candidates who shall have attained upon the whole examination an average mark of at least 80, as required by the Executive order, will be certified by the Board to the Secretary of State as eligible for appointment in the consular service, and the successful candidates will be informed that this has been done.
6. The names of candidates will remain on the eligible list for two years, except in the case of such candidates as shall within that period be appointed, or as shall withdraw their names, and of candidates holding subordinate positions in the consular service, when eligibility shall not expire until appointment to consular rank or until separation from

*As amended by the Board of Examiners, February 18, 1911.

†As amended by the Act approved May 21, 1908.

the service. Candidates whose names have thus been dropped from the eligible list will not again be eligible for appointment unless upon fresh application, designation anew for examination, and the successful passing of such second examination.*

Students who seek a designation for consular examination should apply to the Department of State for full information. Consular service examinations are held in Washington only.

SUGGESTED COURSE FOR THE POLITICAL SCIENCE STUDENT FOR THE
DEGREE OF BACHELOR OF ARTS

First Year.

	HOURS
Economics 1 or 2 (General Economics).....	3
English 1 or 2 (English Rhetoric).....	3
French.....	3
History 1, 2 or 5, 6 (Mediaeval History).....	3
Mathematics, 3 or 6.....	3

Second Year.

Economics 22, 23 (General Sociology, Modern Social Problems).....	2
French.....	3
German.....	3
History 3, 4 (Modern European); 33 (Current History)....	4
Political Science, 1, 4 or 21, 23.....	3

Third Year.

Economics, 26, 27 (Public Finance, Money and Banking)...	2
Economics 36, 37 (Commercial Geography and International Exchange of Commerce).....	2
French or Spanish.....	3
German.....	3
History (American or English).....	3
Political Science, 21, 23 or 1, 4.....	3

Fourth Year.

Economics, 33 (Commercial and Maritime Law).....	2
Economics 38, 39 (Business Organization and Domestic Commerce).....	2
History (English or American).....	3
Political Science, 28 (Political History of South America)...	1½
Political Science 29, 30 (International Law and Elements of Diplomacy).....	3
Political Science 32, 33 (Consular Service and Colonial Administration).....	2
Psychology and Logic.....	3

*As amended by the Board of Examiners, February 18, 1911.

COMBINATION SIX-YEAR COURSE FOR DEGREES OF BACHELOR OF ARTS AND BACHELOR OF LAWS

Regular students in this course will complete three years of work aggregating forty-eight hours in Columbian College, including one of the four groups of prescribed subjects, and will complete in the Law School the three-year course for the degree of Bachelor of Laws. On the completion of the prescribed forty-eight hours of work in Columbian College and the first year of the regular course in Law, the student will receive the degree of Bachelor of Arts.

PRE-MEDICAL COURSES

To meet the higher preliminary requirements for medical education, Columbian College offers the following courses: A *one-year pre-medical course* satisfying the requirement of the American Medical Association for admission to the Medical School; a *six-year combination course*, consisting of two years in Columbian College and four years in the Medical School for which the degrees of Bachelor of Science in Medicine and Doctor of Medicine are given; and a *seven-year combination course*, consisting of three years in Columbian College and four years in the Medical School, for which the degrees of Bachelor of Arts and Doctor of Medicine are given.

The Medical School of the George Washington University in the classification of the Council of Medical Education is one of the "Class A" medical colleges. Since January 1, 1914, the Medical School in common with all other "Class A" schools in the United States, requires for admission to the freshman class a pre-medical course of one college year consisting of specified subjects.

Students having the requisite *high-school* preparation will find it of special advantage to take this pre-medical course in Columbian College, as upon the completion of the year they can be admitted at once to the Medical School.

The candidate for the study of medicine must present on entrance to Columbian College, in addition to the required subjects one unit of History.

Candidates for the study of medicine should include in the college entrance subject two units of German or French, in order to continue in college the study of the same language and obtain a satisfactory reading knowledge of the language.

This is not indispensable, because the Council of Medical Education states—

"Two units of Greek or Latin may be substituted for the two required units of French or German."

The advice of the Council is, however, as follows:

"If a satisfactory reading knowledge of German or French is to be obtained in the one year of college work, it is essential that an advanced course be offered and that the student have completed as a prerequisite in the high school two units of elementary work in German or French."

Candidates substantially prepared may be registered in Columbian College as conditioned students, provided the deficiency is such that it can be made up before the end of the one-year pre-medical college course. To enter the Medical School, it is necessary to have satisfied all of the required academic or high-school preparation and, in addition, all of the specified subjects of the one-year pre-medical college course. No conditioned student will be registered in the Medical School.

Admission to One-Year Pre-Medical Course

One-year pre-medical students will be admitted on the fourteen-unit entrance requirement of the Council on Medical Education of the American Medical Association as follows:

Seven Required Units.—English (Reading and Practice), 2 units; Algebra to quadratics, 1 unit; Plane Geometry, 1 unit; German or French, or Latin or Greek, 2 units; American History and Civil Government, 1 unit (if elementary grade, it must be in addition to the fourteen units).

Seven Elective Units.—To be selected from the following: English Mathematics Latin, Greek, German, French, Spanish, Scandinavian, Science with laboratory work, Agriculture, Drawing, Manual Training, Domestic Science, Music.

One-Year Pre-Medical Course in Columbian College

Candidates for the one-year pre-medical course for admission to the Medical School should register in Columbian College for the following courses:

Physics 3 (lectures).....	3 hours
Physics 2 (laboratory).....	2 periods
Chemistry 1 (lectures).....	3 hours
Chemistry 2 (laboratory).....	2 periods
Zoölogy 1 and 2 (lectures and laboratory).....	6 periods
German or French (elective).....	3 hours

Six-Year Course for the Degrees of Bachelor of Science in Medicine and Doctor of Medicine

Regular students in this course will complete two years of work aggregating at least thirty-six prescribed hours in Columbian College and the four-year course in the Medical School. On the completion of this six-year course, the student will receive at the same time the degrees of Bachelor of Science in Medicine and Doctor of Medicine. The curriculum requirement for this combined six-year course is as follows:

Biological Sciences:	HOURS
Zoölogy 1.....	3
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
German or French or Spanish.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
Total.....	36

Seven-Year Course for the Degree of Bachelor of Arts and Doctor of Medicine

Regular students in this course will complete at least forty-eight hours as prescribed in Columbian College and the four-year course in the Medical School. On the completion of the prescribed forty-eight hours of work in Columbian College and the first year of the regular course in Medicine, the student will receive the degree of Bachelor of Arts.

The forty-eight hours of prescribed subjects in Columbian College are as follows:

Biological Sciences:	HOURS
Zoölogy 1 and 2.....	6
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
French or Spanish.....	6
German.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
Economics, History, or English.....	3
Total.....	48

SCHEDULE OF SUBJECTS FOR THE FIRST TWO YEARS

	MON.	TUES.	WED.	THURS.	FRI.	SAT.
9.15	Math. 3	English 3	Math. 3	English 3	Math. 3	English 3
10.15	French 3 Math. 9 Phil. 1	English 1 Physics 2	French 3 Math. 9 Phil. 3	English 1 Physics 2	French 3 Math. 9 Phil. 1	English 1
11.15	Econ. 1 French 1 German 3 Greek 2	German 1 Physics 2	Econ. 1 French 1 German 3 Greek 2	German 1 Physics 2	Econ. 1 French 1 German 3 Greek 2	German 1
1.45	German 5 Graphics 1 Latin 2 Physics 3 Spanish 2	Chem. 2 Chem. 3 Chem. 7	German 5 Graphics 1 Latin 2 Physics 3 Spanish 2	Chem. 2	German 5 Latin 2 Physics 3 Spanish 2	
2.45	Graphics 1 Greek 1 Hist. 1, 2	Chem. 2 English 5 Chem. 3 Chem. 7	Graphics 1 Greek 1 Hist. 1, 2	Chem. 2 English 5	Greek 1 Hist. 1, 2	
3.45	Graphics 1 Hist. 3, 4 Latin 1 Spanish 1	Chem. 2 Chem. 3 Chem. 7	Graphics 1 Hist. 3, 4 Latin 1 Spanish 1	Chem. 2	Hist. 3, 4 Latin 1 Spanish 1	
5.00	English 2 Geology 1 Physics 1 Math. 4 Phil. 2 Zoology 1	Botany 1 Chem. 1 French 4 German 2 Hist. 30 Greek B Political Science 1, 4	English 2 Physics 1 Math. 4 Phil. 4 Zoology 1 Zoology 2	Botany 1 Chem. 1 French 4 German 2 Hist. 30 Greek B Political Science 1, 4	English 2 Geology 1 Phil. 2 Physics 1 Math. 4 Zoology 1 Zoology 2	Botany 1 Chem. 1 French 4 German 2 History 30 Political Science 1, 4
5.50	Econ. 2 English 4 Geology 2 Math. 12 Math. 6 Zoology 2	Chem. 6 French 2 German 4 Hist. 5, 6	Econ. 2 English 4 Math. 12 Math. 6 Zoology 1 Zoology 2	French 2 German 4 Hist. 5, 6	Econ. 2 English 4 Geology 2 Math. 12 Math. 6 Zoology 1 Zoology 2	French 2 German 4

COLLEGE OF ENGINEERING

ADMISSION

Candidates for admission to the Freshman Class in the Engineering Courses are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French or German.....	4
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry.....	½
Chemistry.....	1
Physics.....	1
Electives.....	2
Total.....	15

NOTE.—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

Candidates for admission to the Freshman Class in the Architectural Course are required to present fifteen units for admission, distributed as follows:

	UNITS
English.....	3
French or German.....	2
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	2
Plane Trigonometry.....	½
Electives.....	6
Total.....	15

For detailed descriptions of the requirements in each preparatory subject see pages 52-60.

For admission to advanced standing or as a special student, see page 60.

COURSES FOR A DEGREE

Four courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.
- IV. ARCHITECTURE.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, in Mechanical Engineering, and in Architecture, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the above engineering degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

REQUIREMENTS FOR A DEGREE

The arrangement of the topics in each of the regular courses for degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of Department Subjects on pages 86-118, to which reference should be made for more complete description.

COMMON TO ALL ENGINEERING COURSES

Freshman Year

- Chemistry, 1, 7.
 - General Chemistry and Qualitative Analysis.
- English, 1 or 2.
 - Rhetoric.
- French or German.
- Graphics, 1.
 - Mechanical and Freehand Drawing.
- Mathematics, 9 or 12.
 - Trigonometry; Analytic Geometry.

CIVIL ENGINEERING COURSE

Sophomore Year

- Civil Engineering, 1, 3, 4.
 - Surveying; Highway Engineering; Materials of Construction.
- French or German.
- Graphics, 8.
 - Descriptive Geometry.
- Mathematics, 20 or 21.
 - Calculus.
- Physics, 1, 2.
 - General Physics; Laboratory Physics.

Junior Year

Applied Mathematics, 20, 22.
 Mechanics; Mechanics of Materials.
 Chemistry, 6.
 Metallurgy.
 Civil Engineering, 2, 8, 9, 22.
 Railroad Engineering; Practical Astronomy; Testing Laboratory; Theory of Structures.
 Electrical Engineering, 6.
 Industrial Electricity
 Geology, 2.

Senior Year

Applied Mathematics, 21.
 Hydraulics.
 Civil Engineering, 20, 21, 23, 24.
 Masonry; Hydraulic Engineering; Theory of Structures; Sanitary Engineering.
 Economics, 33.
 Commercial Law.

ELECTRICAL ENGINEERING COURSE**Sophomore Year**

French or German.
 Graphics, 2, 8.
 Advanced Mechanical Drawing; Descriptive Geometry
 Mathematics, 20 or 21.
 Calculus.
 Mechanical Engineering, 1.
 Mechanism.
 Physics, 1, 2.
 General Physics; Laboratory Physics.

Junior Year

Applied Mathematics, 20, 22.
 Mechanics; Mechanics of Materials.
 Chemistry, 6.
 Metallurgy.
 Electrical Engineering, 1, 2, 4, 5.
 Elementary Electricity and Electrical Engineering; Electrical Measurements; Electrical Engineering Laboratory.
 Mechanical Engineering, 20, 21.
 Steam Engineering; Boilers.

Senior Year

Applied Mathematics, 21.
Hydraulics.
Civil Engineering, 5, 6.
Surveying Instruments; Foundations.
Economics, 33.
Commercial Law.
Electrical Engineering, 8, 21, 22, 23, 24, 26, 27.
Electrical Designs; Alternating Currents; Electrical Distribution; Electrical Applications; Electrical Engineering Laboratory; Electric Lighting; Electric Railways.
Mechanical Engineering, 10, 23.
Engineering Laboratory; Hydraulic Machinery.

MECHANICAL ENGINEERING COURSE

Sophomore Year

French or German.
Graphics, 2, 8.
Advanced Mechanical Drawing; Descriptive Geometry.
Mathematics, 20 or 21.
Calculus.
Mechanical Engineering, 1.
Mechanism.
Physics, 1, 2.
General Physics; Laboratory Physics.

Junior Year

Applied Mathematics, 20, 22.
Mechanics; Mechanics of Materials.
Civil Engineering, 22.
Theory of Structures.
Mechanical Engineering, 6, 9, 20, 21, 24, 28.
Engineering Drawing; Engineering Laboratory; Steam Engineering; Boilers; Cotton Machinery and Machine Tools; Industrial Management.

Senior Year

Applied Mathematics, 21.
Hydraulics.
Chemistry, 6.
Metallurgy.
Civil Engineering, 5, 6.
Surveying Instruments; Foundations.
Economics, 33.
Commercial Law.

Electrical Engineering, 7.

Dynamos and Motors.

Mechanical Engineering, 7, 10, 22, 23, 26, 27.

Machine Design; Engineering Laboratory; Gas Engines;
Hydraulic Machinery; Dynamics of Machinery; Power Plant
Design.

COURSE IN ARCHITECTURE

Freshman Year

Architecture, 2, 3, 4.

Free-hand Drawing; Architectural Drawing and Elementary
Design; Projections, Shades, Shadows and Perspective.

English, 1 or 2.

Rhetoric.

French.

Mathematics, 9 or 12.

Trigonometry; Analytic Geometry.

Sophomore Year

Architecture, 5, 6, 8.

Architectural Design; Free-hand Drawing; History of Archi-
tecture.

English, 3 or 4.

Humanistic Studies.

French.

Geology, 2.

Junior Year

Architecture, 20, 21, 22, 24, 25, 33.

History of Architecture; Building Construction; Sanitation;
Pen and Ink Rendering; Design; Water Color.

Physics, 1 or 3.

General Physics.

Senior Year

Archaeology, 20.

History of Art.

Architecture, 27 or 37, 39, 40, 41, 43.

Design; Building Construction; Water Color; Heating and
Ventilating; Office Practice.

Economics, 33.

Commercial Law.

Electrical Engineering, 26.

Electric Lighting and Illumination.

TEACHERS COLLEGE

The purpose of Teachers College is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

The aims of the Teachers College may be summarized as follows:

- a. To promote the knowledge of educational science.
- b. To fit students for the higher positions in the public school service.
- c. To secure to teaching the rights and prerogatives of a profession.
- d. To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

ORGANIZATION

In order to combine to the best advantage a general college education with adequate professional training for teaching, Teachers College provides a four years' college course, the first two years of which are devoted to a foundation of general culture courses, and the last two to the professional courses and to specialization in the subjects which the student expects to teach.

Inasmuch as a large number of teachers in service are without college degrees, and a still larger number desire to supplement their professional training by taking special courses, the courses of instruction have been arranged to meet the needs of teachers in service, as well as of undergraduate students. The required courses constituting the prescribed work in education are given both in the morning and in the late afternoon hours, and are, therefore, easily accessible both to students and to teachers from the schools.

ADMISSION

Candidates for admission to the Freshman Class in Teachers College must meet the general admission requirements (p. 51) of fifteen units. *Three of these must be in English, two and one-half in Mathematics, and two in one of the following languages: Latin, Greek, French, German, or Spanish.* The remainder of the required fifteen units may be satisfied by any accredited secondary subjects.

Persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as special students on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage.

Graduates of approved Normal Schools, Training Colleges, or Technical Schools, and teachers of experience who have studied privately, will be admitted to such advanced standing as the courses they have pursued warrant.

For further information concerning admission as special student or to advanced standing, see p. 60.

GRADUATION

On the completion of courses of study aggregating at least sixty-two hours, the University confers the degree of Bachelor of Arts and a Bachelor's Diploma in Education. (An "hour" of credit is one recitation or lecture a week or one laboratory period a week for one academic year.) These courses are partly prescribed and partly elective, and the degree is conferred when the necessary work is completed, no time limit being set. The prescribed courses are the following:

a. In general culture subjects:

	HOURS
Biology*.....	3
English.....	3
Foreign Language*.....	6
History*.....	6
Psychology and Logic.....	3
Philosophy.....	3

For the subjects marked with an asterisk (*) electives may be substituted to the extent that approved secondary school work has been done in these subjects. The foreign language requirement must fall in one language, while in history it is required that a survey of the world's history be obtained, and to the extent that this survey has not been obtained before entering college will college work in history be required.

b. In professional subjects ten hours are required of which the following seven are prescribed, although teachers of experience may receive credit for Observation and Practice Teaching.

	HOURS
History of Education.....	2
Principles of Education }.....	2
Principles of Teaching }.....	
School Hygiene.....	1
Observation and Practice Teaching.....	2

In order that the student may receive a thorough grounding in the branches that he wishes to teach, the electives are subject to the following restrictions:

All regular students must complete before graduation at least nine hours in a Major, and at least five hours in a Minor subject, in addition to the first required course, if any, in the same subject.

As a Major, any one of the following subjects, or group of subjects, may be chosen: English, Latin, Greek, French, German, Mathematics, Physical Science, Biological Science, History, Economics and Political Science, Philosophy and Psychology.

As a Minor, choice may be made of any of the other subjects in the same list, or of Education.

THE TEACHER'S DIPLOMA

The Bachelor's Diploma in Education is granted in connection with the Bachelor of Arts degree upon the fulfillment of the following condition: *a.* The student must have satisfactorily completed the courses of study defined above. *b.* He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

The Diploma is also given in connection with higher degrees, provided a graduate student has taken a major or minor in Education, and has satisfied the requirements *a* and *b* above, or in lieu of *a* has completed equivalent work in another institution.

A student holding a bachelor's degree from an approved college or university may, by satisfying the professional requirements, earn the Diploma without registering for a degree.

OBSERVATION AND PRACTICE TEACHING

Ample opportunity is afforded for observation and practice teaching by (*a*) attendance upon observation classes conducted by experienced teachers, and (*b*) actual practice in teaching under supervision and criticism.

EXPERIMENTAL WORK

Teachers College maintains a psychological laboratory for introductory experimental work. The equipment is specially adapted to the investigation of problems of interest to students of education.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the study of methods and other practical educational problems.

TEACHERS APPOINTMENT BUREAU

Teachers College maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in Teachers College, or in Columbian College, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers. Communications should be addressed to the "Teachers Appointment Bureau," Teachers College, The George Washington University.

COURSES OF INSTRUCTION

PROVIDED BY THE DEPARTMENT OF ARTS AND SCIENCES

Courses of instruction are divided into three sections.

First-section courses may be taken by third or fourth year students only by permission of the Dean and the professor in charge of the subject. They may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the bachelor's degree; they serve, however, with additional work, as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses 20 to 49, inclusive; third-section courses, 50 and upwards. The number of hours, unless otherwise specified, indicate hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry count one-third unit each, in other subjects one-half unit each. Laboratories and drawing-rooms will be open from 9.15 a.m. till 10 p.m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all the preliminary requirements for the course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

APPLIED MATHEMATICS

See Engineering.

ARCHAEOLOGY AND HISTORY OF ART

MITCHELL CARROLL, Ph.D.....	Professor
REBECCA SHERMAN ASHLEY.....	Instructor
EDGAR L. HEWETT, D.Soc.....	Lecturer

Second Section. For Undergraduates and Graduates

20. *History of Art.*—An introductory course in the history of architecture, sculpture, painting and the minor arts. Illustrated lectures and

conferences. 20a. Greek Art. *Tu.* at 3.45. 20b. Fifteenth Century Italian Art. *Th.* at 3.45. Professor CARROLL and Miss ASHLEY.

21. *Roman, Mediaeval and Modern Art.*—*Tu.* at 5.00. Professor CARROLL.

22. *Sixteenth Century Italian Art.*—*Th.* at 5.00. Miss ASHLEY.

Third Section. Primarily for Graduates

50. *Classical Archaeology.* Topography and Monuments of Athens and Rome. Two hours. Professor CARROLL.

51. *History of Art.*—Important epochs in the development of architecture, sculpture and painting. Two hours. Professor CARROLL assisted by Miss ASHLEY.

52. *American Archaeology.*—In conjunction with the School of American Archaeology in Santa Fe. Dr. HEWETT.

Use is made of the illustrative material in the National Museum, the Library of Congress and the Corcoran Gallery of Art. Students are invited to the open meetings of the Art and Archaeology League of Washington, and the Washington Society of the Archaeological Institute of America.

ARCHITECTURE

ALBERT BURNLEY BIBB.....	Professor
ALBERT LEWIS HARRIS, B.S. in Arch.....	Assistant Professor
BEDFORD BROWN, B.S.....	Assistant Professor
PHILIP ROGERS HOOTEN.....	Instructor

First Section. Primarily for Undergraduates

2. *Freehand Drawing.*—To be taken at the Corcoran Gallery of Art. Two periods.

3. *Architectural Drawing and Elementary Design.*—This course includes the study of the elements of Architecture including the Five Orders, the use of india ink and water color rendering. At least nine hours per week are to be spent by the student in the drafting room.

Criticisms by Mr. HOOTEN on Monday, Wednesday and Friday evenings.

4. *Projections, Shades, Shadows and Perspective.*—A course in orthographic projections, shades and shadows, followed by a short course in perspective. Two hours.

Criticisms by Mr. HOOTEN on Monday evenings.

5. *Design.*—Problems of an elementary character are given to prepare the student for work in the Class B order of the Society of Beaux-Arts Architects; the rendering of these problems of this Society. At least twelve hours per week are to be spent by the student in the drafting room. Criticisms by Assistant Professor BROWN on Tuesday, Thursday and Saturday evenings.

6. *Freehand Drawing*.—Advanced course. To be taken at the Corcoran Gallery of Art. Two periods.

8. *History of Architecture*.—The course is designed to trace the development of the art in Ancient Egypt, in Greece, and in Rome, and through the early Christian, Byzantine, and Mediaeval periods. *Tu., Th., Sat.*, at 5.00. Professor BIBB.

Second Section. For Undergraduates and Graduates

20. *History of Architecture*.—An advanced course offering a critical study of the architecture of the Renaissance in Italy, France and England, and of its effect upon the building arts of our own time. *Tu., Th., Sat.*, at 5:50. Professor BIBB.

21. *Building Construction*.—Frame buildings, details of construction, interior finish, three-fourths scale and full size details. One lecture and three hours in drafting room. Assistant Professor HARRIS.

22. *Sanitation*.—History of sanitation; pollution of water sources; modern plumbing practice; methods of sewage disposal, septic tank, sewage disposal fields, etc. Two lectures a week for one term. Assistant Professor HARRIS.

24. *Pen and Ink Rendering*.—A study of the renderings of the best pen and ink draftsmen with practice in the use of the pen as a means of Architectural expression. One hour.

Hours of criticism selected by conference with Assistant Professor BROWN.

25. *Design*.—Plan problems, sketch problems, and archaeology problems from the Class B Plan programs of the Society of Beaux-Arts Architects. At least fifteen hours a week are to be spent by the student in the drafting room. Criticism by Assistant Professor BROWN on Tuesday and Friday evenings.

27. *Advanced Design*.—Plan problems and sketch problems are given from the Class A programs of the Society of Beaux-Arts Architects. The latter part of the year is devoted to a thesis, the subject being selected by the student subject to the approval of the Professor of Design. At least eighteen hours a week are to be spent by the student in the drafting room. Criticism by Assistant Professor BROWN on Tuesday and Friday evenings.

33. *Water Color*.—Drawing in water color from still life models, from architectural interiors, and from buildings and gardens. Two hours. Professor BIBB.

37. *Beaux-Arts Problems*.—In advanced design the student may take the problems under the criticism of Mr. CLARENCE DEAN at the Washington Architectural Club.

39. *Building Construction*.—Masonry foundations, pile foundations, stone work, brick work, fire-proofing, ornamental terra cotta, plastering, specifications. One lecture and three hours in drafting room a week. Assistant Professor HARRIS.

40. *Water Color*.—Advanced course. A continuation of course 33. Two hours. Professor BIBB.

41. *Heating and Ventilating*.—Elementary principles of heating and ventilating; details of installation of hot air, hot water, and steam heating plants. Two lectures for one term. Assistant Professor HARRIS.

43. *Office Practice*.—A course of lectures on office practice, business methods of an Architect and special types of buildings by the teaching staff and practicing Architects of the District of Columbia. One hour.

ASTRO-PHYSICS

FREDERICK EUGENE FOWLE, JR.....Lecturer

Third Section. Primarily for Graduates

54. A lecture course on the astro-physical instruments employed in modern research. Mr. FOWLE.

BIOLOGICAL SCIENCE

PAUL BARTSCH, Ph.D.....Professor

ALBERT MANN, Ph.D.....Professor

JULIA THECKLA MACMILLAN, A.M.....Instructor

GEORGE TRAVER HARRINGTON, B.S. in Agri., B.S. in Chem.....Instructor

Zoology

First Section. Primarily for Undergraduates

1. *Systematic Zoology*.—I. Invertebrates. This includes lectures and laboratory work. The lectures cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, *Mon.*, at 5 00; laboratory, *Wed., Fri.*, 5.00-6.40. Professor BARTSCH and Miss MACMILLAN.

2. *Systematic Zoology*.—II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrates, and correlated with these is the study and dissection of typical specimens of each group. Lecture, *Mon.*, at 5.50; laboratory *Wed., Fri.*, 5.00-6.40. Professor BARTSCH and Miss MACMILLAN.

Second Section. For Undergraduates and Graduates

20. *Practical Zoology*.—A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to ex-

pound the economic side of zoology. Open to all students. One hour. Professor BARTSCH.

23. *Ornithology*.—A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. Professor BARTSCH and Miss MACMILLAN.

Laboratory courses in histology and physiology will be arranged for competent students.

Botany

First Section. Primarily for Undergraduates

1. *General Botany*.—An introductory course dealing with the fundamental concepts of plant life. Representative members of the different groups of plants will be studied, and lines of evolutionary development will be emphasized. Lecture, *Th.*, at 5.00; laboratory, *Tu.*, and *Sat.*, 5.00–6.40. Mr. HARRINGTON.

Third Section. Primarily for Graduates

50. Original investigation in (a) Economic Botany, *Materia Medica*, etc.; (b) Parasitism and Monstrosities; (c) Researches in Physiology of single groups; (d) Comparative Organography. Professor MANN.

BOTANY

See Biological Sciences.

CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D.....	Professor
FRANK WIGGLESWORTH CLARKE, Sc.D.....	Professor
NEVIL MONROE HOPKINS, Ph.D.....	Assistant Professor
EDWIN ALLSTON HILL, Ph.D.....	Assistant Professor
THOMAS MALCOLM PRICE, Ph.D.....	Assistant Professor
OTIS DOW SWETT, LL.M., M.S.....	Assistant Professor
HIRAM COLVER McNIEL, Ph.D.....	Assistant Professor
EDWIN HENRY INGERSOLL, M.S.....	Instructor
HENRY ALBERT LEPPER, B.S.....	Assistant

First Section. Primarily for Undergraduates

1. *General Chemistry*.—A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu.*, *Th.*, *Sat.*, at 4.50. Professor MUNROE, Assistant Professor SWETT.

2. *Laboratory Practice*.—A laboratory course for the study of the principles of chemistry and the method of conducting chemical experiment. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Professor MUNROE, Assistant Professor SWETT.

3. *Preparation and Study of the Properties of Chemical Substances*.—A laboratory course. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Professor MUNROE, Assistant Professor SWETT.

4. *Assaying and Metallurgy of the Precious Metals*.—Carried on by the method used by the Government Assayers, the Laboratory being fitted up on the plan of that of the United States Mint. Twelve hours for three months. Professor MUNROE, Assistant Professor SWETT.

5. *Principles of Analysis*.—Lecture. One hour. Professor MUNROE.

6. *Metallurgy of Iron and Steel*.—A course of lectures and readings. *Tu.*, at 6.00. Professor MUNROE.

7. *Qualitative Analysis*.—A brief course intended primarily for students in engineering. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Professor MUNROE, Assistant Professor SWETT.

Second Section. For Undergraduates and Graduates

20. *Qualitative Analysis*.—A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE, Assistant Professor PRICE, Assistant Professor SWETT.

21. *Quantitative Analysis*.—A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Assistant Professor PRICE, Assistant Professor SWETT.

23. *Organic Chemistry*.—Advanced course. *Wed., Fri.*, at 4.50. Professor MUNROE, Assistant Professor SWETT.

24. *Organic Chemistry*.—Advanced course. A continuation of Course 23. *Th., Sat.*, at 6.00. Professor MUNROE, Assistant Professor SWETT.

25. *Chemistry of the Carbon Compounds*.—A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Assistant Professor SWETT, Mr. LEPPER.

26. *Physical Chemistry*.—A lecture course designed to be an introduction to physical chemistry, and to treat of the modern theories of chemistry from the physical standpoint. In this course special attention is given to the ionic theory, electro-chemistry, the law of mass action, and the phase rule. Two hours. Assistant Professor McNEIL.

27. *Stereo-Chemistry*.—This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Assistant Professor HILL.

28. *Biochemistry*.—A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Assistant Professor PRICE.

Third Section. Primarily for Graduates

50. *Explosive Substances*.—Professor MUNROE.

51. *Analytical Methods*.—Professor MUNROE.

53. *Development of the Theory of the Constitution of the Natural Silicates*.—Professor CLARKE.

55. *Special Researches in Electro-Chemistry*.—Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington which are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p.m., and also the meetings of the Chemical Society of the George Washington University which is a most active and efficient student organization.

CIVIL ENGINEERING

See Engineering.

CLASSICAL LANGUAGES AND LITERATURES

CHARLES SIDNEY SMITH, Ph.D. Professor

Greek

First Section. Primarily for Undergraduates

A. *Elementary Course*.—For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirement in Greek, with the exception of Homer. Three hours. Not given in 1914-15.

B. *Homer: Iliad I-IV*.—For students who have taken Course A and desire to prepare themselves to enter Course 1. Tu., Th., at 5.00.

1. Herodotus (selections); Lysias (selected orations); Euripides (*Alcestis*); Greek prose composition. Mon., Wed., Fri., at 2.45.

2. Xenophon (*Memorabilia*); Thucydides (Book VII); Sophocles (*Antigone*). Mon., Wed., Fri., at 11.15.

Second Section. For Undergraduates and Graduates

20. Plato (selections, including the *Apology* and *Crito*); Aristophanes (*Clouds* or *Frogs*). Two hours. Not given in 1914-15.

21. Demosthenes (selected orations); Lucian (selected dialogues); Homer (selections). Tu., Th., at 1.45.

Latin

First Section. Primarily for Undergraduates

1. Livy (Books I and XXI); Cicero (De Senectute); Horace (Odes and Epodes); Latin prose composition. Open to students who have satisfied the admission requirements in elementary and advanced Latin. *Mon., Wed., Fri., at 3.45.*

2. Cicero and Pliny (selected Letters); Horace (Satires and Epistles); Martial (selections). *Mon., Wed., Fri., at 1.45.*

Second Section. For Undergraduates and Graduates

20. Tacitus (selections); Terence (Phormio); Plautus (Captivi).—*Tu., Th., at 11.15.*

21. Quintilian, Book X, and Horace, Ars Poetica; Catullus, Tibullus, and Propertius. Two hours. Not given in 1914-15.

22. *Advanced Latin Composition and Reading at Sight.*—Practice in Latin expression and style. *Th., at 2.45.*

Third Section. Primarily for Graduates

The work in this Section is designed to afford discipline in the methods of philological criticism, with special reference to the interpretation of classical authors, and will include opportunities for original research on the part of competent students. In order to make the work as helpful as possible for those who expect to become teachers, the center of study each year will be one of the authors usually taught in the secondary schools. With the approval of the instructor, properly qualified Seniors may be admitted to these courses. The authors selected are as follows:

50. *Vergil and Roman Epic Poetry.*—Not given in 1914-15.

51. *Caesar, and the Roman Historians.*—Two hours.

52. *Cicero, and Roman Oratory.*—Not given in 1914-15.

ECONOMICS AND SOCIOLOGY

ROBERT RUSS KERN, A.B.....	Assistant Professor
L. RUSSELL ALDEN, A.M.....	Assistant Professor
OSCAR PHELPS AUSTIN, A.M.....	Lecturer

First Section. Primarily for Undergraduates

1. *General Economics.*—An outline course in the principles of political economy, devoted mainly to the study of production and exchange under present-day conditions, followed by a study of the problems of rent, interest, wages, and profits, and including an examination of competition, private property, and economic programs. *Mon., Wed., Fri., at 11.15.* Assistant Professor KERN.

2. Parallel with course 20. *Mon., Wed., Fri.*, at 5.50. Assistant Professor KERN.

Second Section. For Undergraduates and Graduates

22. *General Sociology*.—An outline course in the principles of sociology, devoted mainly to the study of social origins and the development of existing social institutions, with special attention to social psychology. Two hours, first half-year. *Mon., Fri.*, at 5.00. Assistant Professor KERN.

23. *Modern Social Problems*.—A further analysis of modern social conditions with special studies of current questions in sociology. Prerequisite, the course in general sociology. Two hours, second half-year. *Mon., Fri.*, at 5.00. Assistant Professor KERN.

24. *The History of Economic Thought*.—A review of the development of economics as a science from the earliest times to the present. Lectures and library readings. Two hours, first half-year. Given in alternate years. Not given in 1914-15. Assistant Professor KERN.

26. *Public Finance*.—A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State governments. The theory of taxation; administration of public domains, and industries; public debts. Two hours, first half-year. Not given in 1914-15. Assistant Professor KERN.

27. *Money and Banking*.—The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national bank system of the United States and the banking system of foreign nations. Two hours, second half-year. Not given in 1914-15. Assistant Professor KERN.

28. *Economic Problems*.—An advanced course devoted to a more thorough study of the problems developed in the general course in economics. Research and preparation of papers to be presented to the class for discussion and criticism. Credit for course 20, General Economics, is requisite for admission to this course. *Tu., Th.*, at 5.00. Assistant Professor KERN.

33. *Commercial and Maritime Law*.—An outline of the principles of the law relating to commercial transactions generally, including those peculiar to the sea, with more especial reference to the subjects of contracts, sales, bailments, agency, partnership, negotiable instruments, and common carriers. *Tu., Th.*, at 5.50. Assistant Professor ALDEN.

36. *Political and Commercial Geography*.—The products, industries, and commerce of the various sections and countries of the world; transportation routes; trade centers; ports and principal cities; methods of inter-communication; spheres of influence, political and commercial. First half-year. *Mon., Fri.* at 5.50. Mr. AUSTIN.

37. *The International Exchange of Commerce*.—The exchanges between countries, climatic sections; and between the great producing and manufacturing localities; the staple articles of commerce, their places of production and consumption; manufacturing industries and the distribution of their products; a comparative view of the commercial, economic, and financial conditions in the various sections and countries of the world. Second half-year. *Mon., Fri.* at 5.50. Mr. AUSTIN.

38. *Business Organization*.—The business organizations by which the articles forming national and international commerce are produced, transformed into condition for use and transported to the consumer. The extractive industries—agriculture, mining, forestry. The manufacturing industries. The commercial organizations. The transportation systems. Financing: the methods by which funds are accumulated and supplied. The corporation as a factor in business organization. Second half-year. *Tu., Th.*, at 5.00. Mr. AUSTIN.

39. *Domestic Commerce and Industries of the United States*.—Natural resources; agriculture; mining, manufacturing and other industries of the various sections and states. Transportation and other methods of interchange; distributing centers. Quantities and values of principal products. First half-year. *Tu., Th.* at 5.00. Mr. AUSTIN.

Primarily for Graduates.

51. *Seminar in Sociology*.—A research course for the detailed investigation of special sociological problems, suitable for those who are engaged in original investigation or in the preparation of a thesis. Hours to be arranged. Assistant Professor KERN.

EDUCATION

WILLIAM CARL RUEDIGER, Ph.D.....	Professor
WILLARD STANTON SMALL, Ph.D.....	Lecturer
ARTHUR DEERIN CALL, A.M.....	Lecturer
MARIETTA STOCKARD.....	Lecturer

Second Section. For Undergraduates and Graduates

20a. *Principles of Education*.—A comprehensive course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. First half-year. *Mon., Wed., Fri.*, at 9.15. Professor RUEDIGER.

20b. *Principles of Teaching*. A comprehensive course in the principles underlying the teaching process in its intellectual, emotional and motor phases. Special attention is given to making teaching concrete and meaningful. Second half-year. *Mon., Wed., Fri.*, at 9.15. Professor RUEDIGER.

21a. *Principles of Education*.—A brief course in the bases, aims, values and essential content of education as revealed by biological, psychological, sociological and ethical principles. First half-year. *Mon. and Wed.* at 4.00. Professor RUEDIGER.

21b. *Principles of Teaching*. A brief course in the psychological and logical principles underlying the teaching process. Second half-year. Mon. and Wed., at 4.00. Professor RUEDIGER.

(Courses 20 and 21 should be preceded or accompanied by general psychology. Course 21 is designed especially for teachers in service.)

22. *History of Education*.—A general course in the historical development of educational theory and practice. Sat., 9.15-11.15. Professor RUEDIGER.

23. *Child Study*.—The psychology, physiology, and hygiene of childhood and adolescence, with special reference to the problems of teaching. Kirkpatrick's *Fundamentals of Child Study*, supplemented by lectures, assigned reading, and reports. Prerequisite: General Psychology. Not given in 1914-15. Dr. SMALL.

24. *School Sanitation and Hygiene*.—A survey of the relations of education and health, including: The function of the school in promoting health; physical examination of children; medical inspection; physical education; diseases and defects incident to school life; the organization of instruction as related to fatigue; defective children; schoolhouse construction and sanitation. Lectures, reference work, and reports. Sat., 11.15-12.15. Dr. SMALL.

25. *Secondary Education*.—After sketching the meaning and significance of secondary education as revealed by educational theory, by the secondary schools of Germany, France, and England, and by the history of secondary education in America, the course will consider in some detail the educational values, essential content, and methods of teaching the various high school branches. The problems of essential minima, of the connection of the studies with life, and of the development of initiative in the student will be emphasized. Sat., 9.15-11.15. Dr. SMALL.

26. *Elementary Education*.—Theory and Practice. On the theoretical side this course will deal briefly with the general principles involved in self culture, our moral ideal, the state and society, the problem of study, the teaching process, lesson assignment, the recitation, and the art of questioning. The principles developed will be somewhat extensively applied to the teaching of reading, English, American history, geography, arithmetic, and perhaps nature study. Not given in 1914-15. Mr. CALL and Professor RUEDIGER.

(Courses 25 and 26 will be given in alternate years.)

27. *School Administration*.—The public school system: Its development; economic and political relations; organization of administration, financial and educational; problems of administration. Lectures, assigned reading, and reports. Not given in 1914-15. Dr. SMALL.

28. *Experimental Education*.—Not given in 1914-15. Professor RUEDIGER.

29. *Educational Story Telling*.—Study of type stories, adaptation of stories, practical story telling. It is the purpose of the course to de-

velop a basis for the selection and presentation of suitable children's literature, taking into consideration the various stages of the child's development.

Lectures, required reading and reports. Not given in 1914-15. Miss STOCKARD.

30. *Story Telling and Children's Literature*.—Study of Epics—Iliad, Odyssey, and Kalevalla. Retelling, possible dramatization.

Part of the course will be given to a discussion of reading and reading books with a view to supplementing with stories and units of literature. It will be the purpose to work toward a solution of the problem of developing in the child a higher appreciation of the best in literature and a real love of books through his school reading. The course will extend and supplement Course 29 but will be open to all upper class students. *Mon. and Wed.* at 4.00. Miss STOCKARD.

32. *Adolescence*.—A consideration of the psychology of adolescence, with special reference to the problems of secondary education. Lectures, readings, and special topics. *Sat.*, at 9.15. Not given in 1914-15. Dr. SMALL.

33. *Ethical Principles in Education*.—The aim of this course is to promote a deeper professional spirit by stimulating the professional cast of mind. Some of the topics to be studied are: the meaning of ethics; maxims for an ethical code; ethical elements in self-culture; various ethical interpretations of the moral ideal; ethical elements in the advancement of truth; ethics of veracity; the ethics of example; the ethics of charity; ethics and the solution of crime; the ethical value of the state; the ethical interpretation of society; the rise of moral enthusiasm; ethical values in public education. *Tu.*, at 5.00. Mr. CALL.

34. *Observation*.—Observation of experienced teachers, under guidance, in the elementary and secondary schools of the city. The course should normally be taken in the junior year. One hour credit. Professor RUEDIGER.

35. *Practice Teaching*.—Opportunity for practice teaching under supervision and criticism is provided through the courtesy of the public school officials. The course should normally be taken in the senior year. One hour credit. Professor RUEDIGER.

(The students taking courses 34 and 35 will meet together once a week for conference and discussion.)

Third Section. Primarily for Graduates

50. *Seminar in Education*.—The theme for 1914-15 will be problems in educational psychology. The native impulses and capacities of man as a basis for education will be taken up in the first semester and the psychology of learning in the second. The course may be counted either as education or as psychology. Open to qualified undergraduates. *Tu. and Th.*, at 5.00. Professor RUEDIGER.

ELECTRICAL ENGINEERING

See Engineering.

ENGINEERING

EDWIN VIVIAN DUNSTAN, C.E.....	Professor
OSCAR ALEXANDER MECHLIN, C.E.....	Professor
FRANK CHARLES STARR, S.B.....	Assistant Professor
CHARLES WARD MORTIMER, M.E.....	Assistant Professor
HAYNER HASKELL GORDON, E.E., Ph.D.....	Instructor
ROBERT WILBUR MORSE, S.B.....	Instructor
MARK RITTENHOUSE WOODWARD, E.E.....	Instructor

Applied Mathematics

Second Section. For Undergraduates and Graduates

20. *Analytical and Applied Mechanics*.—(1) Statics: including the composition, resolution and equilibrium of forces; center of gravity; friction; machines. (2) Kinematics and Kinetics: including rectilinear and curvilinear motion; motion under action of variable forces and in resisting media; constrained and rotary motion; impact; work and energy; moment of inertia. Four hours, first half-year. Professor DUNSTAN.

21. *Hydraulics*.—The theoretical principles of hydraulics: including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Four hours, first half-year. Professor DUNSTAN.

22. *Mechanics of Materials and Theory of Elasticity*.—Including elastic and ultimate strength and deformation: simple cantilever and continuous beams, columns, torsion; combined stresses; compound columns and beams, including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours, second half-year. Professor DUNSTAN.

Civil Engineering

First Section. Primarily for Undergraduates

1. *Surveying and Mapping*.—This course includes the theory and use of instruments; land, topographic, hydrographic, mining, city, and geodetic surveying; measurement of volumes, projection of maps, etc. The course includes plotting survey notes, topographic symbols, and lettering. Two hours a week. Field work, usually on Saturday. One drawing period a week. Assistant Professor STARR.

2. *Railroad Engineering*.—Railroad curves and earthwork; location of about a mile of railroad; laying out curves; construction of contour maps, profiles, mass diagrams, etc. Two hours a week recitation both terms and one period drawing second term; field work usually on Saturdays. Assistant Professor STARR.

3. *Highways and Pavements*.—Location of highways; construction, improvement and maintenance of roads and pavements; curbs, gutters, sidewalks. Two hours, second term. Professor MECHLIN.

4. *Materials of Construction*.—A study of the properties of stone, brick, cement, concrete, wood, iron, steel, etc., with reference to processes of manufacture. The course is supplemented by a number of practical tests made by the students. Two lectures and one laboratory period during first term. Professor MECHLIN.

5. *Surveying Instruments*.—A two-months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours. Assistant Professor STARR.

6. *Foundations*.—A two-months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours. Professor MECHLIN.

8. *A Course in Practical Astronomy for Civil Engineering Students*.—Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Two lecture-recitation periods during one term. Assistant Professor STARR.

9. *Mechanical Testing*.—A laboratory course in the investigation of the physical properties of engineering material, including exercises in the use of a 200,000 pound Olson Testing Machine. Eighteen periods of two hours each in the second term.

Second Section. For Undergraduates and Graduates

20. *Masonry Construction*.—A course in the use of cement, brick, stone, and concrete, the design of foundations, retaining walls, dams, bridge piers and arches. Included in this is a short course in stereotomy. Two lectures and two design periods. Professor MECHLIN.

21. *Hydraulic Engineering*.—The design and construction of water-power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing system; water rights and irrigation law. Four lectures and two design periods, second term. Professor DUNSTAN.

22. *Theory of Structures*.—A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods. Professor DUNSTAN.

23. *Theory of Structures*.—The theory of steel design; the design of a roof truss, of a plate girder and a pin connected bridge truss and a study of the theory and design of suspension, continuous, cantilever, and arch bridges, and the details of steel-mill and office-building construction. Three lectures and two design periods. Professor MECHLIN.

24. *Sanitary Engineering*.—This course treats on the drainage of buildings and lands; the treatment and disposal of sewage and the sewerage of cities and towns; public water supply and methods of water purification. Three lectures and one design period. Professor MECHLIN.

Third Section. Primarily for Graduates

50. *Advanced Masonry*.—A course in the theory and design of reinforced concrete structures. Professor MECHLIN.

51. *Advanced Masonry*.—The theory of retaining walls and arches. Professor MECHLIN.

52. *Testing of Materials*.—This course involves original research upon assigned topics. Professor MECHLIN.

53. *Water-Power Development*.—A comparative study of the principal water-power developments of the United States and Europe. The course consists largely of assigned readings and reports thereon. Professor DUNSTAN.

Electrical Engineering

First Section. Primarily for Undergraduates

1. *Elementary Mathematical Theory of Electricity and Magnetism*.—Elementary electricity and magnetism is studied with special attention to the needs of engineering students. The phenomena accompanying static electricity are noted. Problems illustrating the theory and having practical application are required to be solved. Two hours. Assistant Professor MORTIMER.

2. *Elements of Electricity; Direct Current Motors and Generators; Design Work*.—Elements of electricity are studied during the first term and especial emphasis is laid upon the principles underlying the flow of currents. During the second term a study is made of direct current generators and motors, covering the laws of the magnetic circuit as applied to the dynamo. The course includes the design of electrical machinery and apparatus. An introductory study of alternating currents is also begun. Numerous problems are assigned throughout the course. Three hours. Assistant Professor MORTIMER.

4. *Electrical Measurements*.—A laboratory course for Juniors. Selected experiments. Foster's Hand-book and special laboratory notes are used for reference. Two three-hour periods, first term. Assistant Professor MORTIMER and Mr. WOODWARD.

5. *Electrical Laboratory*.—Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Two three-hour periods, second term. Assistant Professor MORTIMER and Mr. WOODWARD.

6. *Industrial Electricity*.—A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical

machinery, electrical railways and other applications of electric motors. Two hours, first term. Mr. WOODWARD.

7. *Electrical Engineering*.—A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construction, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Three hours. Mr. WOODWARD.

8. *Electrical Design*.—A course for Seniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. One recitation period and one drawing period.

Second Section. For Undergraduates and Graduates

21. *Alternating Current Theory and Machinery*.—A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Four hours. Assistant Professor MORTIMER.

22. *Electrical Distribution*.—A course for Seniors in Electrical Engineering, covering the whole field of distribution of electricity for light and power. Text-book: Ferguson's Elements of Electrical Transmission. Two hours. Assistant Professor MORTIMER.

23. *Electrical Applications*.—A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour. Mr. WOODWARD.

24. *Advanced Laboratory Work for Seniors in the Electrical Engineering Course*.—Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's Laboratory and Factory Tests in Electrical Engineering, with Foster's Electrical Engineer's Hand-book for general reference. Two three-hour periods. Assistant Professor MORTIMER.

25. *Inspection of Plants and Industrial Works*.—In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written description submitted by the students.

26. *Electric Lighting and Illumination*.—A course for Seniors in Electrical Engineering covering the subject of electric lighting and illumination, including detailed study of different types of lamps, shades, ar-

rangement of light sources, effect of walls, etc. Two hours. Mr. WOODWARD.

27. *Electric Railways*.—A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours, second term. Assistant Professor MORTIMER.

28. *High Frequency Current*.—A lecture course covering the theory of high frequency and oscillatory currents and their application to wireless telegraphy and telephony. The condenser discharge, the theory of resonance in coupled circuits, and electromagnetic waves will be treated. The design of wireless telegraph and telephone apparatus will also be discussed. The class will meet in the laboratory from time to time to familiarize themselves with the use of wireless apparatus. One period. Dr. GORDON.

Juniors and Seniors in Electrical Engineering are expected to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers.

Third Section. Primarily for Graduates

52. *Advanced Course in the Mathematical Theory of Alternating Currents*.—Assistant Professor MORTIMER.

53. *Advanced Course in Polyphase Currents*.—Assistant Professor MORTIMER.

54. *Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus*.—Assistant Professor MORTIMER.

55. *Advanced Electric Railways*.—A course including a short history of electric railways, calculation of the theoretical curves, study of different systems and examples of modern installations. Phillip Dawson's *Electric Traction on Railways* is used as a basis for the course. Assistant Professor MORTIMER.

Graphics

First Section. Primarily for Undergraduates

1. *Mechanical and Freehand Drawing*.—A general course embracing the care and use of instruments; orthographic and isometric projections; sections and intersections; curve plotting; sketching of simple machine details; freehand lettering; principles of working drawings. Two three-hour periods. Assistant Professor STARR.

2. *Advanced Mechanical Drawing*.—A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards; arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawing; proportioning by empirical formulas. Two three-hour periods. Assistant Professor STARR.

8. *Descriptive Geometry*.—A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and

developments; warped surfaces; shades and shadows; original construction problems. Two lectures and one drawing period. Assistant Professor STARR.

Mechanical Engineering

First Section. Primarily for Undergraduates

1. *Mechanism*.—A course in the systematic study of the kinematics of machinery, in which mechanical movements are reduced to scientific analysis. Carefully developed problems and diagrams of changes of position and speed in mechanisms are constantly used.

Some attention is given to the design of gear teeth, and twenty-five hours in the second term are devoted to valve gears for steam engines. Three lectures and one drawing period. Mr. MORSE.

6. *Engineering Drawing*.—This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineering to specific problems. Practice is given in the design of valve gears and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. There is also included the complete working drawings for a steam boiler. Two three-hour periods. Mr. MORSE.

7. *Machine Design*.—This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are:

The complete design of a horizontal single cylinder gas engine, or the design of a steam boiler, a series of shaft couplings, and a fly wheel.

The constructive details and calculations are discussed and the limitations of theoretical and empirical formulas pointed out. One lecture-recitation hour and five hours in the drawing room. Mr. MORSE.

9. *Engineering Laboratory*.—A course of practical work in testing general engineering apparatus for efficiency. The work consists in indicating steam engines; determining the evaporative efficiency of boilers; tests on the strength of materials; measurement of the flow of water; gas-engine brake tests; refrigeration tests, and fuel value determinations. Two three-hour periods, second term. Mr. MORSE and Dr. GORDON.

10. *Engineering Laboratory*.—This course is a completion of Course 9. Two three-hour periods. Mr. MORSE and Dr. GORDON.

Second Section. For Undergraduates and Graduates

20. This course deals with the principles of thermo-dynamics; the properties of gases and vapors, especially steam, and the flow of steam through nozzles. The application of the above principles is discussed and the simple and compound steam engine and the steam turbine are studied. Three hours, first term. Dr. GORDON.

21. *Boilers and Power Plant Accessories*.—This course is devoted to a study of boilers, condensers, feed pumps, economizers, stokers, and other power-plant accessories. The design of power plants will be discussed. Three hours, second term. Dr. GORDON.

22. *Gas Engines and Compression and Refrigeration Machinery*.—This course deals with the theory and practice concerning the internal combustion motor. During the second half of the term the theories and principles involved in compression machinery and artificial refrigeration will be discussed. Three hours, second term. Dr. GORDON.

23. *Hydraulic Machinery*.—This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two hours, second term. Mr. MORSE.

24. *Cotton Machinery and Machine Tools*.—A study of the mechanisms found in cotton machinery and machine tools. Two hours. Mr. MORSE.

26. *Dynamics of Machines*.—A course including a number of the principal applications of dynamics to moving machinery, such as governors, fly-wheels, and the effect of the reciprocating parts of the steam engine. Two hours. Mr. MORSE.

27. *Power-Plant Design*.—This course provides for the design with complete plans and specifications of a power plant of industrial proportions by the student. One lecture-recitation hour and two three-hour drawing periods, first term. Dr. GORDON.

28. *Industrial Management*.—A course dealing with the business systems of manufacturing establishments.

The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the method of superintendence and of compensating labor, the determination of the cost of production, and the effect on costs of different systems of distributing indirect expenses. Two hours, second term. Mr. MORSE.

ENGLISH

WILLIAM ALLEN WILBUR, A.M.....	Professor
RICHARD COBB, A.B.....	Assistant Professor
GERTRUDE R. BRIGHAM, A.B.....	Assistant

First Section. Primarily for Undergraduates

1. *English Rhetoric*.—A study of the principles of self expression through language with practice in composition. Tu., Th., Sat., at 10.15. Professor WILBUR.

2. *English Rhetoric*.—Parallel with Course 1. *Mon., Wed., Fri.*, at 5.00. Professor WILBUR.

NOTE.—Credit for Course 1 or 2 is requisite for admission to any other course in English.

3. *Humanistic Studies, 1914-15*.—Ecclesiastical Polity. Book 1; The Prelude; The Federalist. *First half-year*. The Poetry of John Milton. *Second half-year*. *Tu., Th., Sat.*, at 9.15. Professor WILBUR.

4. *Humanistic Studies, 1914-15*. The Works of Nathaniel Hawthorne. *First half-year*. The Ring and the Book. *Second half-year*. *Mon., Wed., Fri.*, at 5.50. Professor WILBUR.

5. *General Survey of English and American Literature*.—The course gives a brief history of English literature to 1600; from 1600 to 1900 it offers also knowledge of representative authors through prescribed reading. *Tu., Th.*, at 2.45. Assistant Professor COBB.

Second Section. For Undergraduates and Graduates

20. *English Composition*.—*Tu., Th.*, at 11.15. Assistant Professor COBB.

22. *Shakespeare*.—The Histories and Comedies. Given 1914-15. *Mon., Wed., Fri.*, at 9.15. Professor WILBUR.

23. *Shakespeare*.—The Tragedies. Given 1914-15. *Tu., Th.*, at 5.00. Professor WILBUR.

(The Temple edition of Shakespeare is recommended.)

26. *Chief American Poets*.—Studies in Poetry. Not given in 1914-15.

Third Section. Primarily for Graduates

54. *English Seminar*.—Graduate students engaged in individual research will discuss assigned topics in a seminar of English studies, meeting each week at an appointed time.

FRENCH

See Romance Languages.

GEOLOGY AND MINERALOGY

GEORGE PERKINS MERRILL, Ph.D. Professor
RAY SMITH BASSLER, Ph.D. Assistant Professor

First Section. Primarily for Undergraduates

1. *Mineralogy*.—Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be

considered as introductory to the courses in either systematic or economic geology. *Mon., Fri.*, at 5.00. Assistant Professor BASSLER.

2. *Geology*.—Systematic geology; dynamical, structural and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-books: Blackwelder and Barrows' *Elements of Geology*; Merrill's *Rocks, Rock Weathering, and Soils*. *Mon., Fri.*, at 5.50. Professor MERRILL and Assistant Professor BASSLER.

Second Section. For Undergraduates and Graduates

20. *Economic Geology*.—[Geology 1 and 2 and Chemistry 1 are prerequisite for this course.] The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Lindgren's *Mineral Deposits*. Merrill's *Stones for Building and Decoration* and *The Non-Metallic Minerals*. Given in alternate years. Professor MERRILL.

21. *Paleontology*.—A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Assistant Professor BASSLER.

Third Section. Primarily for Graduates

50. *Advanced Geology and Paleontology*.—The student in this course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject.

GERMANIC LANGUAGES AND LITERATURE

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor
ALFRED FRANCIS WILLIAM SCHMIDT, A.M.....Professor

First Section. Primarily for Undergraduates

1. *Elementary*.—The essentials of German grammar; translation of prose and poetry; beginning conversation; composition and dictation. This course is open only to beginners, and the work done is equivalent

to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat.*, at 11.15. Professor SCHOENFELD.

2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.00. Professor SCHMIDT.

3. Selected texts from the best contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued, with special emphasis on syntax, word-formation, and the relationship of German and English; conversation continued. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2, or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri.*, at 11.15. Professor SCHOENFELD.

4. Parallel with Course 3, except that in the second term scientific German is read. *Tu., Th., Sat.*, at 5.50. Professor SCHMIDT.

5. Advanced course in German syntax; principal difficulties of the language: idioms; synonyms; extensive translations of English prose into German; essays; selected advanced prose; classical reading and literature; German history. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri.*, at 1.45. Professor SCHOENFELD.

6. Parallel with Course 5, with special reference to advanced students both in the historico-political and the scientific departments. *Tu., Th.*, at 5.00. Professor SCHOENFELD.

Second Section. For Undergraduates and Graduates

20. *Outline of the History of German Literature and Civilization from the Renaissance and Reformation Period until Goethe's Death*, with special attention to the relation of literature and the other fields of culture—Lectures, extensive readings of the classics; advanced practice in writings, essays. *Mon. Wed., Fri.*, at 10.15. Professor SCHOENFELD.

21. *German Literature of the Classic Period at its Zenith.*—Goethe's and Winckelmann's influence on German art; with special reference to the modern German drama; classical ballad and lyric poetry; renaissance of the German folkslied in the eighteenth and nineteenth centuries. Not given in 1914-15. Professor SCHOENFELD.

22. *The Currents of German Literature from the beginning of the Nineteenth Century until 1870.*—Romanticism; Modern German Drama, with special emphasis on Kleist, Grillparzer, Hebbel; Lyrics and Ballads: Uhland and Heine. *Tu., Th., Sat.*, at 10.15. Professor SCHOENFELD.

Third Section. Primarily for Graduates

50. *Seminar in the History of Middle High German Literature*, with special reference to the Epic and Lyrical Poetry in the Twelfth and Thirteenth Centuries. Introduction to scientific methods of historical and literary research in the Nibelungenlied and the Gudrunnsaga. Professor SCHOENFELD.

51. *Gothic*.—Introduction to comparative Indo-European Grammar. Two hours. Professor SCHMIDT.

52. *Old High German*.—The development of the German language. Two hours. Professor SCHMIDT.

Only one of the foregoing two courses (51, 52) is given in any one year.

For notice of the Richard Heinzel Germanic Library, see page 33.

GRAPHICS

See Engineering.

GREEK

See Classical Language.

HISTORY

CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor
LESLIE C. MCNEMAR, A.B.....	Assistant Professor
LEVI RUSSELL ALDEN, A.M.....	Assistant Professor

First Section. Primarily for Undergraduates

1. *Mediaeval History*.—A history of the settlement of the Germanic tribes in the territory of the Empire, with a study of feudal institutions, extending through the movements of the Crusades; texts, with assigned readings. First half-year. *Mon., Wed., Fri.*, at 2.45. Professor SWISHER.

2. *Mediaeval History*.—A history of the evolution of national government extending through the periods of the Renaissance and the Protestant Revolution; texts and assigned readings. Second half-year. *Mon., Wed., Fri.*, at 2.45. Professor SWISHER.

3. *Modern European History*.—A study of the European States under the new conditions resulting from the discovery of America and the opening of the oriental trade routes, extending through the period of the French Revolution; texts, lectures, and collateral readings. First half-year. *Mon., Wed., Fri.*, at 3.45. Professor SWISHER.

4. A continuation of the preceding through the revolutionary movements of the nineteenth century, with a more detailed study of recent issues; texts, lectures, and collateral readings. Second half-year. *Mon., Wed., Fri.*, at 3.45. Professor SWISHER.

5. *Mediaeval History*.—Parallel with Course 1. First half-year. *Tue., Th., Sat.*, at 5.50. Professor SWISHER.

6. *Mediaeval History*.—Parallel with Course 2. Second half-year. *Tu., Th., Sat.*, at 5.50. Professor SWISHER.

Second Section. For Undergraduates and Graduates

25. *English History*.—A general course dealing primarily with the political, economic, and social development; the growth of the Constitution; the relation of church and state; the domestic, foreign and colonial policies; noting the men and events worthy of consideration in determining the causes and results inherent in this development. Text-book and lectures. First half-year. *Tu., Th., Sat.*, at 11.15. Not given 1914-15; alternates with Political Science 31. Assistant Professor McNEMAR.

30. *American Constitutional History*.—A history of the origin and development of the Federal Constitution of 1789, with a study of its interpretation under the pressure of party issues. Lectures, text-books, and collateral readings. *Tu., Th., Sat.*, at 5.00. Professor SWISHER.

33. *Current History*.—A discussion of political questions of the day, with special reference to their origin and historical significance. Lectures throughout the year. *Sat.*, at 11.15. Professor SWISHER.

Third Section. Primarily for Graduates

54. *Seminar Work*.—The results of individual research, conducted by graduate students upon assigned topics, will be discussed at the weekly meetings of the seminars of American and Modern European History.

Undergraduate students qualified by previous historical study, who desire to do intensive work with a view to gaining fuller information upon special periods or facility in the use of historical materials, may, with the approval of the instructor, be admitted to the historical seminars.

INTERNATIONAL LAW AND DIPLOMACY

See Political Science.

LATIN

See Classical Languages.

MATHEMATICS

HOWARD LINCOLN HODGKINS, Ph.D.....	Professor
ASAPH HALL, JR., Ph.D.....	Professor
H. GRANT HODGKINS, A.B.....	Instructor
WILLIAM WRIGHT FRASER, A.B., B.L.....	Lecturer

First Section. Primarily for Undergraduates

3. *Solid Geometry; College Algebra; Plane Trigonometry*.—*Mon., Wed., Fri.*, at 9.15. Professor HODGKINS.

4. *Algebra; Plane Trigonometry*.—*Mon., Wed., Fri.*, at 5.00. Mr. HODGKINS.

6. *Solid Geometry; College Algebra; Plane Trigonometry*.—*Mon., Wed., Fri.*, at 5.50. Mr. HODGKINS.

9. *Trigonometry; Analytic Geometry.*—Mon., Wed., Fri., at 10.15.
Professor HODGKINS.

12. *Trigonometry; Analytic Geometry.*—Mon., Wed., Fri., at 5.50.
Professor HODGKINS.

Second Section. For Undergraduates and Graduates

20. *Differential and Integral Calculus; Elements of differential equations.* Tu., Th., Sat., at 5.00. Professor HODGKINS.

21. *Differential and Integral Calculus; Elements of differential equations.* Tu., Th., Sat., at 9.15. Professor HODGKINS.

Third Section. Primarily for Graduates

50. *Differential Equations.*—Professor HODGKINS.

58. *Celestial Mechanics.*—Theory of central forces; theory of parabolic and elliptic orbits. Lectures, with reading from the works of Gauss, Oppolzer, and Moulton. Professor HALL.

59. *Vector Analysis.*—This course is designed to give the elements of an analysis based chiefly on the method of the late Professor Gibbs (of Yale), but extended so as to embrace the quaternion idea. Application is made to problems in both Geometry and Physics, including vector calculations applied to alternating currents. Mr. FRASER.

MECHANICAL ENGINEERING

See Engineering.

METEOROLOGY

WILLIS LUTHER MOORE, D.Sc., LL.D.....Professor
WILLIAM JACKSON HUMPHREYS, Ph.D.....Professor

Third Section. Primarily for Graduates

50. *Applied Meteorology.*—Investigation of the underlying laws governing meteorological phenomena and of the methods employed in practice for their interpretation and applications. Professor MOORE.

51. *Meteorological Physics.* This course presupposes collegiate training in general physics. Particular attention will be given to the interpretation of meteorological phenomena in the light of modern physics; and those wishing to make this their principal study will be assisted in the selection of a suitable problem for investigation and advised in the collection of data necessary to its solution. Professor HUMPHREYS.

NAUTICAL SCIENCE

GEORGE WASHINGTON LITTLEHALES, C.E.....Professor

First Section. Primarily for Undergraduates

1. *Nautical Science*.—Navigation; nautical astronomy; nautical almanac; production and use of nautical charts; tides; applications of meteorology, terrestrial magnetism and oceanography to navigation; deviation of the compass in iron and steel ships; theory and use of instruments of navigation. Professor LITTLEHALES.

Third Section. Primarily for Graduates

50. *Nautical Science*.—Special study of one or more topics. Conferences, assigned readings, direction of research. Professor LITTLEHALES.

PHILOSOPHY AND PSYCHOLOGY

WILLIAM CARL RUEDIGER, Ph.D.....	Professor
SHEPHERD IVORY FRANZ, Ph.D.....	Professor
EDWARD ELLIOTT RICHARDSON, Ph.D.....	Professor

First Section. Primarily for Undergraduates

1. *General Psychology*.—An introductory study of the principal facts and laws of the mental life. *Mon., Fri., at 10.15.* Professor RUEDIGER.

2. *General Psychology*.—Parallel with Course 1. *Mon., Fri., at 5.00.* Professor RUEDIGER.

3. *Logic and Theory of Knowledge*.—Principles of deductive and inductive inference, followed by a study of the nature and structure of knowledge, its organization, and its relation to language. *Wed., at 10.15.* Professor RUEDIGER.

4. *Logic and Theory of Knowledge*.—Parallel with Course 3. *Wed., at 5.00.* Professor RUEDIGER.

(Courses 1 and 3, or 2 and 4 are planned to be taken together, but may be taken separately and are intended to satisfy the requirements in Psychology and Logic of Groups I to IV (pp. 69-70). They are introductory to the remaining courses in Philosophy and Education, and should be taken in the Sophomore year by students intending to pursue advanced courses or courses in Education.)

Second Section. For Undergraduates and Graduates

20. *History of Philosophy*.—The more important epochs in the history of thought. Attention is directed to the relation of these distinctive periods to the course of the world's progress. First half-year. *Tu., Th., Sat., at 10.15.* Professor RICHARDSON.

21. *Ethics*.—A historical and theoretical course, with the aim of acquainting the student with the principal ethical theories. Reference is made to the application of these theories to concrete conditions. Second half-year. *Tu., Th., Sat., at 10.15.* Professor RICHARDSON.

24. *History of Philosophy*.—The development of philosophy, its nature and problems. This course while introductory is designed to be comprehensive and to give the student a general survey of the philosophic field. Tu., Th., at 5.00. Professor RICHARDSON.

25. *Experimental Psychology*.—An introductory laboratory course. Experiments on sensation, movement, effects of practice, memory and association, emotional manifestations, etc. This course may be taken parallel with Course 1 or 2. To be taken by graduate students who have not had experimental psychology and who are taking a major or minor in psychology. Th. 4-5.50. One hour credit. Professor RÜDIGER.

27. *Recent Philosophical Movements*.—A consideration of the various philosophical movements and tendencies of the immediate past. A critical study of the occasion and meaning of the trend of thought at the present time. Lectures and reading of recent books and periodicals. Not given in 1914-15. Professor RICHARDSON.

28. *Philosophy of Nature*.—A critical examination of the concepts of physical science. An investigation of the significance of scientific laws and theories. Wed. at 5.00. Professor RICHARDSON.

(Courses 27 and 28 are given in alternate years)

29. *Problems of Philosophy*.—An advanced course dealing with philosophical questions from the standpoint of the questions themselves rather than as these have been presented historically. A critical and constructive examination of fundamental philosophic principles and problems. Lectures, readings and reports. Second half-year. Two hours. Time to be arranged. Professor RICHARDSON.

Third Section. Primarily for Graduates

50. *Seminar in Psychology*.—During the year 1914-15 this course will be combined with Education 50. Professor RÜDIGER.

51. *Metaphysics*.—The principles of metaphysics and the problems of philosophy. An advanced course tracing the origin and development of metaphysical questions, and a critical examination of the attempted solution of these problems. Readings, conferences and written reports. Professor RICHARDSON.

52. *Advanced Experimental, Abnormal or Physiological Psychology*.—Course to be altered in different years in accordance with the needs of students. Prerequisite—courses in general psychology, and introductory experimental psychology. Conferences, reading of recent literature, and demonstrations. Professor FRANZ.

53. *Research in Psychology*. Advanced students, who select psychology as major or minor for the degree of A.M. or Ph.D., will be given special topics for investigation in abnormal, physiological or experimental psychology. To be preceded or accompanied by Course 52 or its equivalent. Professor FRANZ.

PHYSICS

HOWARD LINCOLN HODGKINS, Ph.D.....	Professor
HAYNER HASKELL GORDON, Ph.D.....	Instructor
CHARLES EDWIN VAN ORSTRAND, S.M.....	Lecturer
HARVEY LINCOLN CURTIS, Ph.D.....	Lecturer
LOUIS COHEN, B.S.....	Lecturer

First Section. Primarily for Undergraduates

1. *General Physics*.—A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has had a college course in trigonometry. *Mon., Wed., Fri.*, at 5.00. Professor HODGKINS.

2. *Laboratory Physics*.—A selected series of experiments, mainly quantitative. Two two-hour periods. *Tu., Th.*, at 10.15 or *Tu., Th.*, at 7.30. Professor HODGKINS and Dr. GORDON.

3. *Introductory General Physics*.—A lecture and recitation course, similar to Course 1, but less mathematical, and planned with reference to the needs of the general student. *Mon., Wed., Fri.*, at 1.45. Professor HODGKINS.

Second Section. For Undergraduates and Graduates

21. *Heat*.—A lecture and laboratory course, based on Preston's Theory of Heat and Poynting and Thomson's Heat. Three periods. Not given in 1914-15.

22. *Light*.—A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. Not given in 1914-15.

Third Section. Primarily for Graduates

56. *Electricity*.—Theory of electric oscillations, with applications to wireless telegraphy and telephony. Mr. COHEN.

57. *Kinetic Theory*.—The physical properties of gases discussed from the standpoint of general dynamics. Free path phenomena including viscosity, diffusion, heat conduction, and molecular aggregation and dissociation. Jean's Dynamical Theory of Gases. A lecture and seminar course. *Mon.*, at 4.50. Mr. VAN ORSTRAND.

58. *Elasticity*.—The physical properties of solids as applied to problems in geophysics. The theories of homogeneous stress and strain. Potential energy of strained solids. Transmission of force. Propagation of earthquake waves. Love's Mathematical Theory of Elasticity. A lecture and seminar course. *Mon.*, 4.50. Not given in 1914-15. Mr. VAN ORSTRAND.

59. *Theoretical Electricity*.—A lecture course on the Mathematical theory of Electricity, using J. J. Thomson's Elements of Electricity

and Magnetism as a basis. The fundamental propositions of electrical theory are discussed, and their applications to practical problems are pointed out. The solution of a number of problems is also required. Dr. CURTIS.

POLITICAL SCIENCE

CHARLES HERBERT STOCKTON, LL.D.....In charge of Department
LESLIE CLEVELAND McNEMAR, A.B.....Assistant Professor
OSCAR PHELPS AUSTIN, A.M.....Lecturer

First Section. Primarily for Undergraduates

1. *Elements of Political Science*.—An elementary course designed to familiarize the student with the nature and scope of politics as a science; the origin, nature and functions of the state; the distinction between sovereignty and government; the distribution of powers, and particularly the relation of the individual to the state and the attendant obligations of citizenship. Recommended as a prerequisite to the succeeding courses. Text-book and lectures. First half-year. Tu., Th., Sat., at 5.00. Assistant Professor McNEMAR.

2. *European Governments*.—A comparative study of the political organization of the principal states of Europe, involving a classification of the state, and the nature of its government on the basis of the source of power; further, an examination of the relation of the executive, legislative and judiciary departments, to each other, and the nature of the party system in each. Text-book and lectures. Second half-year. Tu., Th., Sat., at 5.00. Alternates with Pol. Sci. 4. (Not given in 1914-15.) Assistant Professor McNEMAR.

4. *Political Parties and Party Problems in the United States*.—A study of the organization and methods of action; growth of the party system; primary and convention system; permanent party organization; elements of cohesion in parties; reform movements and measures; theories of the party system. Text-book, assigned readings and lectures. Second half-year. Tu., Th., Sat., at 5.00. Alternates with Pol. Sci. 2. (Given in 1914-15.) Assistant Professor McNEMAR.

Second Section. For Undergraduates and Graduates

21. *American Government*. A study of the governmental system of the United States; origin, adoption, and growth of the federal Constitution; the relation of the Federal to the State governments, and their organization; the basis of suffrage, influence of public opinion, and political parties. Recommended as a prerequisite to the succeeding courses. Text-book, lectures, and assigned readings. First half-year. Tu., Th., Sat., at 10.15. Assistant Professor McNEMAR.

22. *Federal Government*.—A study of the political problems involved in the organization of the federal government under the present Constitution, including foreign relations, concentration of power, cen-

tralization or responsibility, relation of the executive, legislative and judiciary departments, and the importance of their subdivisions. Text-book, lectures, and assigned readings. Second half year. *Tu., Th., Sat.*, at 10.15. Alternates with Pol. Sci. 23. (Not given in 1914-15.) Assistant Professor McNEMAR.

23. *Municipal Government in the United States*.—A study of the relation of the city to the state and the nation, including the source of power, their organization and administration; the problems arising from rapid growth, powers and liabilities, their influence upon politics, and the necessity for scientific administration as economic units. Text, lectures, and assigned readings. Second half-year. *Tu., Th., Sat.*, at 10.15. Alternates with Pol. Sci. 22. (Given in 1914-15.) Assistant Professor McNEMAR.

27. *Political History of Modern Europe, 1850 to the Present*.—A concise study of the political development of the principal European states dealing primarily with the causes and effects involved in the struggle for national unity, with special attention to political organization, the forms of government, and the policies of larger European interest such as colonization and international relations in South America, Asia, and Africa. Text-book and lectures. Second half-year. *Tu., Th.*, at 11.15. Alternates with Pol. Sci. 28. (Not given in 1914-15.) Assistant Professor McNEMAR.

28. *Political History of South America, 1810 to the Present*.—A general study of the political development of the States of South America, individually and collectively, dealing primarily with the causes and effects involved in their struggle for national, economic, social and political development, with special attention to the questions of foreign relations. Text-book and lectures. Second half-year. *Tu., Th., Sat.*, at 11.15. Alternates with Pol. Sci. 27. (Given in 1914-15.) Assistant Professor McNEMAR.

29. *Principles of International Law*.—A concise study of the nature, sources and sanctions of International Law. The laws of peace deal with the origin, classification, and essential rights and duties of states but not diplomatic relations; the laws of war deal with the sources and general relations between belligerents together with the rights and duties of neutrals. Lectures, text, assigned cases and additional readings and papers on selected topics. First half-year. *Mon., Wed., Fri.*, at 5.00. Lectures and assigned readings, President STOCKTON, *Wed.* at 5.00; supplemented by seminar and case instruction, Assistant Professor McNEMAR, *Mon., Fri.*, at 5.00.

30. *Elements of Diplomacy and Diplomatic Usage*.—A thorough study of the general principles of diplomatic usage; the history and organization of the Department of State; the rights, privileges and immunities of diplomatic and consular officers; the preliminaries, drafting, signing, and ratification of treaties, and an investigation of other amicable means for settling International Differences. Lectures, text, assigned cases and additional readings and papers on selected topics. Second

half-year. *Mon., Wed., Fri.*, at 5.00. Lectures and assigned readings, President STOCKTON, *Wed.*, 5.00; supplemented by seminary and case instruction, Assistant Professor McNEMAR, *Mon., Fri.*, at 5.00.

31. *Government of England*.—A detailed study of the English governmental system compared with the presidential system of the United States. The organization, functions and procedure, of the crown and the ministry, parliament (particularly the House of Commons), political parties, the judiciary, and local government will be clearly shown. Text and assigned reading. First half-year. *Tu., Th., Sat.*, at 11.15. (Co-ordinating with History 25.) Assistant Professor McNEMAR.

32. *The Consular Service*.—The history and development of the Consular Service of the United States; its present organization; the rights, duties, and methods of procedure of consular officers; the consular conventions of the United States; comparative study of modern consular establishments. First half-year. *Tu., Th.*, at 5.50. Mr. AUSTIN.

33. *Colonial Administration*.—A study of the executive, legislative, and judicial organization and the administration of laws in existing colonies; and investigation of the industries, labor, and education in these colonies. The organization and administration of the insular possessions of the United States. Second half-year. *Tu., Th.*, at 5.50. Mr. AUSTIN.

Third Section. Primarily for Graduates

54. *Conflict of Laws or Private International Law*.—A course dealing with private law in its international aspects. Among the topics treated are marriage and divorce, guardianship, wills, and the administration of estates, bankruptcy, and foreign judgments. Open only to students who have had instruction in the fundamental subjects of American Law. Two hours. Professor GREGORY.

56. *Seminar in Political Science*.—Students competent to undertake advanced work are admitted to this seminar for the presentation and discussion of essays and topics belonging to the field of political science. Hours and credit to be arranged for the work each half year. Assistant Professor McNEMAR.

PREVENTIVE MEDICINE

GEORGE MILLER STERNBERG, M.D., LL.D. Professor

Third Section. Primarily for Graduates

50. A seminar course dealing with vital statistics; etiology and prevention of infectious diseases; causes and prevention of infant mortality; prevention of disease of occupation; protective inoculations; municipal hygiene; national and interstate preventive measures. Professor STERNBERG.

ROMANCE LANGUAGES AND LITERATURES

GEORGE NEELY HENNING, A.M.....	Professor
EDWARD CULLOM, A.M.....	Instructor in French
WALTON COLCORD JOHN, A.B.....	Instructor in Spanish

French

First Section. Primarily for Undergraduates

1. *Grammar, Composition, Drill in Pronunciation.*—Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400-500 pages.) For beginners. *Mon., Wed., Fri.,* at 11.15. Professor HENNING.
2. Parallel with Course 1. Fraser and Squair's French Grammar. *Tu., Th. Sat.,* at 5.50. Professor HENNING.
3. *Translation, Reading, Grammar, Composition.*—Fraser and Squair's French Grammar. First text, Feuillet, "le Roman d'un jeune homme pauvre" (Heath); other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.,* at 10.15. Professor HENNING.
4. Parallel with Course 3. Fraser and Squair's French Grammar. First text, Feuillet, "le Roman d'un jeune homme pauvre" (Heath); other texts to be announced. *Tu., Th., Sat.,* at 5. Professor HENNING.
6. *General Survey of French Literature, Nineteenth to Seventeenth Centuries.*—Translation, collateral reading and reports thereon, lectures on literature and the history of the language, composition. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.,* at 3.45. Professor HENNING.

Second Section. For Undergraduates and Graduates

- Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.
21. *Seventeenth Century Literature.*—History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld, La Bruyère, Boileau, Saint-Simon, Mme de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Not given in 1914-15.
 26. *Literature of the First Half of the Nineteenth Century.*—History, criticism, travels, fiction, drama, lyric poetry. Balzac, Baudelaire, Chateaubriand, Gautier, Hugo, Lamartine, Michelet, Musset, Sainte-Beuve, George Sand, Thierry, Vigny, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Not given in 1914-15. Professor HENNING.

28. *Literature of the Second Half of the Nineteenth Century.*—History, philosophy, criticism, fiction, drama, lyric poetry. Augier, Brunetière, Daudet, Dumas fils, Flaubert, France, Heredia, Leconte de Lisle, Lemaitre, Loti, Maeterlinck, Renan, Rostand, Sully Prudhomme, Taine, Verlaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. *Mon., Wed., Fri., at 2.45.*

Third Section. Primarily for Graduates

57. *The Comedies of Molière.*—Professor HENNING.

60. *The Romantic Movement in France, with some reference to the same movement in England and Germany.* Professor HENNING.

Other courses may be arranged for competent graduates.

Spanish

First Section. Primarily for Undergraduates

1. *Grammar, Composition.*—Hills and Ford's Spanish Grammar. Translations and reading of nineteenth century fiction and drama. Open to first-year students only by permission of the instructor. *Mon., Wed., Fri., at 3.45.* Mr. JOHN.

2. *Translation of Modern Prose and Poetry.*—With much collateral reading. *Mon., Wed., Fri., at 1.45.* Mr. JOHN.

(A second section of this course will be given on *Tues.* and *Thurs.* at 5.00 if elected by a sufficient number of students.)

PROFESSIONAL DEPARTMENTS

LAW SCHOOL

FACULTY

CHARLES HERBERT STOCKTON, LL.D.....	President of the University
CHARLES NOBLE GREGORY, A.M., LL.D....	Dean and Professor of Law
MELVILLE CHURCH, LL.M.....	Professor of the Law of Patents
WALTER COLLINS CLEPHANE, LL.M.....	Professor of Law
EDWIN CHARLES BRANDENBURG, LL.M.....	Professor of Law
ARTHUR PETER, LL.B.....	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....	Professor of Law
WENDELL PHILLIPS STAFFORD, A.M., LL.D.....	Professor of Law
EVERETT FRASER, A.B., LL.B.....	Professor of Law
JOHN WILMER LATIMER, LL.B.....	Professor of Law
HENRY CRAIG JONES, A.B., LL.B.....	Assistant Professor of Law
MERTON LEROY PERSON, A.M., LL.B.....	Assistant Professor of Law
LOYD HALL SUTTON, S.B., LL.B.....	Instructor in Patent Law
ALFRED BUHRMAN.....	Clerk of the Moot Court
WILLIAM CABELL VAN VLECK, A.B., LL.B.,	
Secretary of the Law School and Instructor in Law	

COURT OF APPEALS

WILLIAM F. MATTINGLY, LL.D.....	Chief Justice
JOHN BELL LARNER, LL.D.....	Associate Justice
STANTON JUDKINS PEELE, LL.D.....	Associate Justice

LIBRARY

ULYSSES WAYNE WRIGHT, A.B.....	Assistant Librarian
NEAL BRADFORD SPAHR, A.B.....	Assistant Librarian

GENERAL STATEMENT

The Law School, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was in 1893, in accordance with the recommendation of the American Bar Association, increased to three years. Since 1903 most of the important topics of substantive law have been in charge of professional law teachers giving their whole time to the work of legal instruction. Those branches of the law connected with practice are in charge of professors who are actively engaged in the administration of the law either at the bar or on the bench.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered. A special course in Patent Law was added in 1895 and has been doubled in the present year.

In 1900 the Law School was one of the group of law schools which organized the Association of American Law Schools, and it has remained a member of this Association since that time. This Association includes forty-three of the best and most progressive law schools of the country and is committed to the policy of advancement in legal education.

THE ADVANTAGES OF WASHINGTON FOR THE STUDY OF LAW

To students of law, the peculiar advantages of Washington are manifest. The Supreme Court of the United States is in session during practically the entire school year. Students have the rare opportunity of hearing the arguments presented by leading American lawyers and the decisions of this high tribunal, which are delivered orally each Monday, upon the important legal questions which come before that court for final determination. Congress is in session during the winter, and here students see the practical workings of the largest and most important law-making body. The Department of Justice, the legal branch of the Federal Government, is also located in Washington. Besides the above there are also the United States Court of Claims, the United States Court of Customs Appeals, and the various local courts of the District of Columbia. The last-named courts exercise the unusual dual function of State and Federal courts. By means of attendance upon these courts students may familiarize themselves with all branches of legal procedure.

HOURS FOR LECTURES

The hours of instruction are 7.50-8.40 a.m., 9.00 a.m.-12.00 m., and 4.50-6.30 p.m. Many of the courses are duplicated, so that a student may, if he so desires, confine his work largely either to the forenoon or to the afternoon. Students who desire, or are compelled by circumstances, to support themselves by employment in the Government Service or elsewhere, or who desire to obtain practical experience in an attorney's office in addition to their work in law school, will find this arrangement of hours especially desirable. Such students may complete the full course for the degree, confining their attendance entirely from 4.50-6.30 p.m., or attending partly from 7.50-8.40 a.m. and partly from 4.50-6.30 p.m.

LOCATION

The Law School occupies the entire fifth and sixth floors of the New Masonic Temple, corner of New York Avenue, Thirteenth and H Streets N. W., and is easily accessible from all parts of the city. The quarters are well equipped with commodious class rooms, moot court rooms, offices, the law library, and a students room.

ACADEMIC YEAR

The academic year extends through more than eight months, beginning on the last Wednesday in September and ending on the Wednesday following the Wednesday nearest the first day of June, and is divided into two half-years, the second half-year beginning in 1914-15 on Monday, February 1. The session of 1914-15 begins on Wednesday, September 30, and closes Wednesday, June 9. Courses are so arranged that it is possible for a student to enter at the beginning of the second semester of any year and be graduated three years from that time, receiving his degree at the Winter Convocation, held on or about February 22 of each year.

Students may register at any time during the year. Those who register later than three weeks after the opening of the semester, shall be restricted to registration for such work only as in the opinion of the proper committee of the faculty they can successfully carry.

Students who apply for registration not later than two months from the close of registration or students absent for unavoidable cause for not exceeding two months may remove the condition in attendance by study for a period of one and one-half times the period of the absence, under a practitioner during such time as the Law School is not in session, proof thereof to be made by affidavit of the practitioner.

ADMISSION

1. *For the Degree of Bachelor of Laws.*—Applicants for admission as candidates for the degree of Bachelor of Laws must be at least eighteen years of age and must, in conformity with the requirements of the Association of American Law Schools, of which this school is a member, have either of the following qualifications: (1) They must have completed a four years course in an approved high school. (2) They must have educational training sufficient to satisfy the entrance requirements of Columbian College of the University. In order to satisfy the latter requirements, students must present credits aggregating 15 units, which are broadly equivalent to a four years high school course. A unit represents approximately one year's study in a subject in a preparatory or high school. The fifteen units must include English 3 units, Mathematics 2½ units, and 2 units of one of the following languages: Latin, Greek, French, German or Spanish. The remaining 7½ units are elective. Units may be satisfied in general as follows:

English, 3 units

Requirements recommended by the Conference on Uniform Entrance Requirements in English, February 22, 1909, in Grammar, Composition and Literature.

Latin

Elementary, 2 units

Grammar and Composition

Caesar

Greek

Elementary, 2 units

Grammar and Composition

Xenophon

Advanced, 2 units	Advanced, 1 unit
Cicero	Homer
Virgil	
Prose Composition	
French	Mathematics
Elementary, 2 units	Algebra
Advanced, 2 units	Elementary, 1 unit
	Intermediate, $\frac{1}{2}$ unit
Spanish	Advanced, $\frac{1}{2}$ unit
Elementary, 2 units	Plane Geometry, 1 unit
	Solid Geometry, $\frac{1}{2}$ unit
German	Plane Trigonometry, $\frac{1}{2}$ unit
Elementary, 2 units	
Advanced, 2 units	
History	Physics, 1 unit
Ancient, 1 unit	Recitations and Laboratory work
Greek and Roman	
Mediaeval and Modern	Chemistry, 1 unit
European, 1 unit	Recitations and Laboratory work
English, 1 unit	
American and Civil Government, 1 unit	

Other subjects which will be accepted on the basis of one unit for a year's work are botany, zoology, physiology, physiography, political economy and other accredited high school subjects.

Manual Training High School	Bookkeeping, 2 units
Subjects:	Business Organization, 1 unit
Shopwork, not exceeding 2 units	Commercial Law, 1 unit
Domestic Science, not exceeding 2 units	Government and Industrial Problems, $\frac{1}{2}$ unit
Domestic Arts, not exceeding 2 units	Commercial History, $\frac{1}{2}$ unit
Business High School Subjects:	Commercial and Physical Geography, $\frac{1}{2}$ unit
Accounting and Finance, 1 unit	

Applicants for admission on certificate should secure formal certificates setting forth the credits claimed, and present these certificates attached to their application forms. All applications for admission should be addressed to the Secretary of the Law School, who will, upon request, furnish proper blanks and detailed information as to entrance examinations.

2. *For the Degree of Master of Laws or Master of Patent Law.*—Candidates for these degrees must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools, of which this school is a member.

3. *Special Students.*—Persons who can not qualify as candidates for a degree but are over twenty-one years of age and have had such educational training and practical experience as should enable them to pursue satisfactorily the study of law, may be admitted as special students by consent of the Dean.

ADVANCED STANDING

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting a certificate from any law school of accredited standing showing that the student has successfully completed equivalent courses, or by passing the regular examinations set for that purpose at the beginning of the term, after the student has shown that he has pursued a course of study in a law school in the subjects upon which he is examined, covering at least as many hours as are required for such subjects in this University. No credit is given for study pursued in a law office, except as explained above under the statement as to the Academic Year.

All examinations that may be required of applicants for advanced standing are held during the first week of each session.

CREDIT GIVEN BY OTHER SCHOOLS FOR WORK DONE

Because of the fact that the Law School is a member of the Association of American Law Schools the work certified by it is given a maximum of credit by the other law schools of the country both as to time and, as far as the authorities of this school have been able to ascertain, as to subjects. This enables students who, for any reason, are unable to complete their work in Washington to continue it at other institutions with a minimum loss of time and work.

METHOD OF INSTRUCTION

Instruction in subjects of substantive law is based mainly upon the study and discussion of cases.

In the discussions in the class room every effort is made to lead the student to a clear understanding of fundamental legal principles and to afford him scientific training in the best method of study and legal reasoning.

These courses are given mainly by members of the law faculty who give their entire time to the Law School and are in daily attendance.

Subjects involving the adjective law are taught by lectures, study of text-books and cases, and by practical work in pleading, drafting and

the trial of moot cases. These courses are in charge of experienced members of the bar in active practice.

COMBINED SIX-YEAR COURSE FOR THE DEGREES OF BACHELOR OF ARTS AND BACHELOR OF LAWS

Regular students in this course will complete three years of work aggregating forty-five hours in Columbian College, including one of the four groups of prescribed subjects, and will complete in the Law School the three-year course for the degree of Bachelor of Laws. On the completion of the prescribed forty-five hours of work in Columbian College and the first year of the regular course in Law, the student will receive the degree of Bachelor of Arts.

COURSES OF INSTRUCTION

A. Leading to the Degree of Bachelor of Laws

The course of instruction leading to the degree of Bachelor of Laws extends through a period of at least three years. An average of twelve hours class work per week for three years is required of all candidates for this degree.

Students devoting their whole time to the study of law may, with the permission of the Dean, select additional subjects from the second and third years, provided the aggregate of the hours taken does not exceed fifteen a week. Such excess credits may be applied toward the degree of Master of Laws or of Master of Patent Law.

Students not devoting their whole time to the study of law are urged to devote more than three years to the completion of the course. Many students find it more satisfactory to do so. In case of unsatisfactory work students are required so to extend the period of study.

FIRST YEAR SUBJECTS

First Semester

**Contracts* (A).—Professor GREGORY. Three hours a week. Willis ton's Cases on Contracts.

**Criminal Law and Procedure*.—Professor EARNEST. Three hours a week. Clark's Criminal Law and Mikell's Cases on Criminal Law. Clark's Criminal Procedure and selected cases.

**Personal Property*.—Mr. VAN VLECK. Two hours a week. Gray's Cases on Property, Volume I.

**Real Property I.* (A).—Professor FRASER. Two hours a week. Gray's Cases on Property, Volume I.

**Torts* (A).—Assistant Professor JONES. Two hours a week. Ames and Smith's Cases on Torts. Volume I, Third Edition; Volume II, Second Edition.

Second Semester

Agency.—Assistant Professor FERSON. Three hours a week. Wambaugh's Cases on Agency.

• Required Subjects.

**Contracts* (B).—Professor GREGORY. Three hours a week. Willis-
ton's Cases on Contracts.

Domestic Relations.—Mr. VAN VLECK. Two hours a week. Case book
to be announced.

**Real Property I* (B).—Professor FRASER. Two hours a week. Gray's
Cases on Property, Volumes I and II.

**Torts*. (B).—Assistant Professor JONES. Two hours a week. Ames
and Smith's Cases on Torts. Volume I, Third Edition; Volume II,
Second Edition.

SECOND YEAR SUBJECTS

First Semester

**Common Law Pleading and Practice*.—Professor CLEPHANE. Two
hours a week. Tyler's Stephen on Pleading.

**Equity*. (A).—Professor STAFFORD. Two hours a week. Ames' Cases
on Equity Jurisdiction.

**Evidence* (A).—Professor PETER. Two hours a week. McKelvey on
Evidence and Thayer's Cases on Evidence.

**Real Property II* (A).—Professor FRASER. Three hours a week.
Gray's Cases on Property, Volumes II and III.

Sales.—Assistant Professor FERRON. Three hours a week. Willis-
ton's Cases on Sales. Second Edition.

Second Semester

Brief Making.—Professor LATIMER. One hour a week.

Damages.—Assistant Professor JONES. Two hours a week. Beale's
Cases on Damages. (Not given in 1914-15 and in alternate years there-
after.)

**Equity* (B).—Professor STAFFORD. Two hours a week. Ames' Cases
on Equity Jurisdiction.

Equity Pleading and Practice.—Professor CLEPHANE. One hour a week.
Rush on Equity Pleading and Practice. Rush's Cases on Equity Plead-
ing and Practice.

**Evidence* (B).—Professor PETER. Two hours a week. McKelvey on
Evidence and Thayer's Cases on Evidence.

Insurance.—Assistant Professor JONES. Two hours a week. Wam-
baugh's Cases on Insurance. (Not given in 1914-15 and in alternate
years thereafter.)

Municipal Corporations.—Assistant Professor JONES. Two hours a
week. Beale's Cases on Municipal Corporations. (Given in 1914-15
and in alternate years thereafter.)

Partnership.—Mr. VAN VLECK. Two hours a week. Gilmore's Cases
on Partnership. (Given in 1914-15 and in alternate years thereafter.)

Real Property II (B).—Professor FRASER. Three hours a week.
Gray's Cases on Property, Volume V.

* Required Subjects.

Quasi-Contracts.—Mr. VAN VLECK. Two hours a week. Scott's Cases on Quasi-Contracts. (Not given in 1914-15 and in alternate years thereafter.)

THIRD YEAR SUBJECTS

First Semester

Bankruptcy.—Professor BRANDENBURG. One hour a week.

**Bills and Notes.*—Assistant Professor FERSON. Three hours a week. Huffcutt's Negotiable Instruments. Statutes, Cases and Authorities. Second Edition.

Conflict of Laws (A).—Professor GREGORY. Two hours a week. Lorenzen's Cases on Conflict of Laws.

Constitutional Law (A).—Professor FRASER. Two hours a week. Case book to be announced.

**Moot Court.*—Professors CLEPHANE, EARNEST and LATIMER. Two hours a week.

Organization and Management of Corporations.—Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

Patent Law Practice (A).—Professor CHURCH. Two hours a week.

Patent Office Practice and Substantive Patent Law.—Mr. SUTTON. Two hours a week. Given for the first time second semester 1913-14.

Preparation of Legal Instruments.—Professor LATIMER. One hour a week.

**Private Corporations (A).*—Assistant Professor JONES. Two hours a week. Warren's Cases on Corporations.

Suretyship.—Assistant Professor JONES. Two hours a week. Ames' Cases on Suretyship.

Second Semester

Conflict of Laws (B).—Professor GREGORY. Two hours a week. Lorenzen's Cases on Conflict of Laws.

Constitutional Law (B).—Professor FRASER. Two hours a week. Case book to be announced.

Federal Procedure.—Professor BRANDENBURG. One hour a week.

Legal Tactics and Ethics.—Professor CLEPHANE. One hour a week.

**Moot Court.*—Professors CLEPHANE, EARNEST and LATIMER. Two hours a week.

Patent Law Practice (B).—Professor CHURCH. Two hours a week.

Patent Office Practice and Substantive Patent Law.—Mr. SUTTON. Two hours a week. Given for the first time second semester, 1913-14.

**Private Corporations (B).*—Assistant Professor JONES. Two hours a week. Warren's Cases on Corporations.

Trusts.—Assistant Professor FERSON. Three hours a week. Ames' Cases on Trusts.

Wills and Administration.—Professor PETER. One hour a week.

Second and third year subjects, not required and given in alternate years, are open to both second and third year students.

* Required Subjects.

B. Leading to the Degree of Master of Laws

Students admitted as candidates for the degree of Master of Laws are required to elect subjects, not previously taken covering a minimum of ten hours a week. These may be freely elected from the subjects offered by the Faculty of Law and from International Law given in Columbian College.

Any excess credits obtained in this Law School in the course leading to the degree of Bachelor of Laws may be applied toward the Master's degree. The degree of Master of Laws will not be conferred, however, until one year after the receipt of the Bachelor's degree.

Advanced Practice.—Candidates for the Master's degree may also elect advanced practice work in the Moot Court, receiving therefor a credit of two hours for the year.

C. Leading to the Degree of Master of Patent Law

A candidate who has successfully completed the requirements prescribed for the degree of Master of Laws, if he has duly completed and received credit for the courses in Patent Law and Practice and Federal Procedure, may elect to become a candidate for the degree of Master of Patent Law instead, and that degree may be conferred upon him, but the above mentioned topics shall be counted only toward one degree, and shall not be available for the degree in Patent Law, if they have been counted toward any other degree.

COURSE IN PATENT LAW

A special course in Patent Law Practice is given by Professor Church. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week.

This course may be elected and counted by students toward the degree of Bachelor of Laws, and such students will be required to take only the first semester of the regular moot court work. A certificate, under the seal of the University, is granted to all students who complete this course.

In the present year an additional course in United States Patent Office Practice and Substantive Patent Law has been added and the work in Patent Law thus doubled. This course may also be counted by students toward the degree of Bachelor of Laws.

COURSES IN PRACTICE

A. Moot Court Work

1. *For the Degree of Bachelor of Laws.*—Particular stress is laid upon moot court work. Aside from the practice court connected with the course in Patent Law, there are four courts in which undergraduate

students pursue their work. Three are *nisi prius* courts presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court is composed of the ex-Chief Justice of the United States Court of Claims and of members of the Washington Bar.

Every third-year student, before receiving the Bachelor's degree, is required to prepare the pleadings in and prosecute to judgment the required number of cases in the *nisi prius* courts, with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be spent by each third-year student in active participation in moot court work in the court room to which he is assigned. Students electing Patent Law will be required, in view of the special moot court work in that course, to take only the first half-year of the regular moot court work.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judgment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

2. *For the Degree of Master of Laws.*—The same facilities for moot court work as are described above are afforded in the course leading to the degree of Master of Laws. All candidates for this degree taking moot court work are required to carry through the appellate court each case assigned to them.

3. *Officers and Equipment.*—The clerk of the Moot Court is one of the assistant clerks of the Supreme Court of the District of Columbia, but his assistants in each court room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, and counsel tables, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

. It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

B. Brief Making

In view of the rapidly increasing bulk of our case law, it becomes absolutely indispensable that students should be taught to find authorities in point, to collate them, and to present them to the court in a clear and concise form. In order to afford this training a course in Brief Making is given. This course will be conducted in part in the Library of the Law School, so that the use of the digests and reports may be illustrated.

C. Preparation of Legal Instruments

Students are instructed in this course in the actual preparation of deeds, mortgages, wills, assignments, contracts, partnership agreements, and other legal instruments which a lawyer is called upon to prepare. Statements of facts are furnished to the class by the professor in charge, and each student is required to prepare the various forms of instruments. These are corrected by the professor and are discussed and criticised in class. Careful consideration is given to special forms of execution and acknowledgment when one of the parties to the instrument is a corporation, a partnership, a married woman, and the like.

D. Legal Tactics and Ethics

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course is given. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of many years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of starting in practice and opening and furnishing an office, with suggestions as to office systems.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, and conducting the argument on appeal, including the use of authorities in court. The Canons of Professional Ethics adopted by the American Bar Association are studied in this course. Practical instruction in Extraordinary Legal Remedies constitutes a part of this course.

EXAMINATION AND GRADES

Regular Examinations.—Written examinations are held at the close of each semester. These examinations are final as to the work of that semester. All students, unless specially excused by the Dean, are required to take the regular examinations in the subjects pursued.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject.

Grades.—At all examinations the grading of students will be indicated by the letters A, B, C, D, E, and F, representing, respectively, *excellent*, *good*, *satisfactory*, *fair*, *conditioned*, and *failed*.

Conditions and Failures.—A student receiving the grade of F (failed) in any subject will be required to repeat the subject.

A student receiving the grade of E (conditioned) in any subject will be required to repeat that subject unless he pass the *next* regular examination for removal of conditions with a grade of at least C.

Regular examinations for the removal of conditions are held during the first week of each academic year. Application for permission to take these examinations must be made in writing to the Secretary of the Law School not later than three days before the date for which the examination is scheduled. Special examinations for the removal of conditions are held at the end of each academic year for the benefit of candidates for the Bachelor's degree, who have been conditioned in not more than four semester hours during the first semester of their last year.

The instructors of the first year class are a committee to pass on the eligibility of a student to re-register, with power to warn for deficiency, and to refuse re-registration to any student whose work is deemed unsatisfactory.

Special Examinations.—No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

Attendance.—Regular attendance is required in all courses; and the examination grade of any student in any course may be withheld and the passing of another examination or the repetition of the course may be required on the sole ground of unsatisfactory attendance.

Election of Courses.—No student shall be allowed to register in courses aggregating more than fifteen hours during any one semester without first obtaining the permission of the Faculty.

Every student who is a candidate for graduation with the degree of Bachelor of Laws in his third year shall take and pass in each semester of this third year courses aggregating ten hours.

Election of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

DEGREES

1. *Bachelor of Laws*.—The degree of Bachelor of Laws will be conferred upon students who have studied law for a period of at least three years and passed satisfactory examinations upon subjects aggregating thirty-six year hours, and whose attendance and conduct have been satisfactory to the Faculty. The degree will not be conferred upon students deficient in Bills and Notes, Common Law Pleading and Practice, Contracts, Corporations, Equity, Evidence, Moot Court, Property I and II and Torts.

The degree of Bachelor of Laws *with distinction* will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

2. *Master of Laws or Master of Patent Law*.—The degree of Master of Laws or Master of Patent Law will be conferred upon students who have completed the work prescribed for these degrees with the grade of C or better, and whose attendance and conduct have been satisfactory to the Faculty.

LAW LIBRARY AND READING-ROOM

A well-equipped working library, comprising about 6,000 volumes, is open to the students from 8.30 a.m. to 10.00 p.m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The library contains the complete decisions of the highest courts of thirty-eight states and the District of Columbia, the complete reports of the United States Supreme Court and the other Federal courts, the complete National Reporter System, the Century, Decennial and American Digests, the various encyclopaedias of law, the Lawyers Reports Annotated, the American Decisions, American Reports and American State Reports, the English Common Law and Chancery Reports, the English Reprints, the Law Journal Reports since 1865, and about eight hundred standard text-books, and legal periodicals.

In addition to these facilities, the students have free access to the Congressional Library, and other public libraries.

PRIZES

The Ordranax Prize Scholarship.—A prize scholarship, known as "The Ordranax Prize Scholarship," is awarded to that member of the Second Year Class taking the regular course, who shall during his first and second years attain the highest average grade. In determining the average grade of contestants the grade received in each subject shall be multiplied by the number of hours given to such subject and the sum of the results divided by the total number of hours. The recipient of this prize scholarship shall be entitled to receive credit for tuition fees to the extent of ten hours work in his third year. Library and diploma fees will remain payable. The award of this scholarship is purely per-

sonal and will not be commuted to a cash payment, nor will it be transferable. The recipient of the scholarship must make use of the scholarship during the session next succeeding its award; otherwise, the same shall be awarded, upon like conditions, to the person having the next highest grade. This scholarship, for the session 1913-14 was awarded to Merrell Edward Clark.

Ellsworth Prize.—A prize of twenty-five dollars in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done by a regular student in the Patent Law Course. Awarded in 1913 to Lawrence A. Gale Miller.

Phi Delta Phi Prize.—The Marshall Chapter of Phi Delta Phi Fraternity, which is the local chapter, has offered a prize of twenty-five dollars cash, to be awarded to that member of the first year class taking the regular course, who shall attain the highest average grade, the grade to be determined in the same manner as the Ordronaux Prize. Awarded in 1913 to John Monteith McFall.

American Law Book Company Prize.—A prize, offered by the American Law Book Company, of the Students Edition of "Cyc" in twelve volumes is awarded each year to the student of the Law School, graduating in the entire course for the LL.B. degree, with the highest scholastic standing for the entire course. This highest standing is ascertained in the same manner as the Ordronaux Prize. This prize is to be awarded at Commencement. Awarded 1913 for the first time to Loyd Hall Sutton.

John Byrne and Company Prize.—A prize offered by John Byrne and Company of Washington, D. C., consisting of the four volumes of their Legal Classics is awarded each year to the student attaining the highest grade in Real Property II (b). Offered 1913-14 for the first time.

PUBLIC SPEAKING AND DEBATING

Excellent facilities for training in public speaking and parliamentary law are afforded by the Columbian Debating Society and the University Congress which have been organized in the Law School, and which meet weekly for debate. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises.

Intercollegiate debates are also held. Membership on the teams which represent the University in these contests must be won in preliminary contests held for such purpose. These debates are conducted under the supervision of a committee of the University Faculty.

ADMISSION TO THE BAR

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Law School of the University is regarded as dis-

three years under the direction of a competent attorney, but by those rules the course in the Law School of the University is regarded as discharging this requirement. Its work is also accepted as fulfilling the requirements for preliminary law study in substantially all of the other jurisdictions of the United States.

FEEs

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum for each hour taken per week ...	10
4. Fee for graduation.....	10
5. Fee for a certificate under the seal of the University.....	2

No registration will be accepted for less than a full semester, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during the semester will be granted only on recommendation of the Dean and the approval of the President.*

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

PAYMENT OF FEES

Matriculation, library and other special fees are due in full in advance. Tuition may be paid in eight monthly installments in advance. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. Fees are payable at the office of the Treasurer of the University, 2024 G Street, or of the Secretary of the Law School.

BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

For catalogues, application blanks, and further information, address

THE SECRETARY OF THE LAW SCHOOL,
The George Washington University,
New Masonic Temple, Washington, D. C.

MEDICAL SCHOOL

FACULTY

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Associate Laryngologist and Ophthalmologist

WALTER HIBBARD MERRILL, M.D.,.....Radiographer

JOHN BRADFORD BRIGGS, M.D.,.....Pathologist

FRANK ADELBERT HORNADAY, S.B., M.D.,

Director of the Clinical Laboratory

CHARLES WILBUR HYDE, M.D.....	Anaesthetist
CLINE N. CHIPMAN, M.D.....	Anaesthetist
JOHN ADOLPH ROLLINGS, M.D.....	Resident Physician (on leave)
CUSTIS LEE HALL, M.D.....	Acting Resident Physician
ROY MACLEAY FORTIER, M.D.....	Associate Resident Physician
JOY ALVA OMER, M.D.....	Associate Resident Physician
EUGENE DEYERLE SUPPLEE.....	Senior Student Intern
TSANNYOEN PHILIP SZE.....	Senior Student Intern
FRANK M. CERVONN, A.B., Phar.D.....	Pharmacist
MARY WINIFRED GLASCOCK, R.N.	Superintendent of Nurses and Prin-
cipal of the Training School for Nurses.	
JOHN BRUCE COPPING.....	Superintendent of the Hospital

DISPENSARY

ALBERT FREEMAN AFRICANUS KING, M.D.....	Obstetrician-in-Chief
STERLING RUFFIN, M.D.....	Physician-in-Chief
JOHN WESLEY BOVÉE, M.D.....	Gynecologist-in-Chief
WILLIAM CLINE BORDEN, M.D.....	Surgeon-in-Chief
BENJAMIN RUSH LOGIE, M.D.....	Director of the Dispensary
WILLIAM CABELL MOORE, M.D....	Assistant Director of the Dispensary

General Medicine

BUCKNER MCGILL RANDOLPH, M.D.....	Attending Physician
WALTER ASHBY FRANKLAND, M.D.....	Attending Physician
WILLIAM CABELL MOORE, M.D.....	Attending Physician
COURSEN BAXTER CONKLIN, M.D.....	Attending Physician
WILLIAM JOHNSTON MALLORY, M.D.....	Attending Physician

General Surgery

TRUMAN ABBE, M.D.....	Attending Surgeon
EDMUND THOMAS MURDAUGH FRANKLIN, M.D.....	Attending Surgeon
JOHN POTTS FILLERBROWN, M.D.....	Attending Surgeon
JANVIER W. LINDSEY, M.D.....	Attending Surgeon

Genito-Urinary Diseases

FRANCIS RANDALL HAGNER, M.D.....	Genito-Urinary Surgeon
HOMER GIFFORD FULLER, M.D.....	Associate Surgeon
ADAM KEMBLE, M.D.....	Associate Surgeon

Gynecology

DANIEL LERAT BORDEN, M.D.....	Attending Gynecologist
ALBERT ELWOOD PAGAN, M.D.....	Attending Gynecologist

Obstetrics

HURON WILLIS LAWSON, M.D.....	Associate Obstetrician-in-Chief
ELIJAH WHITE TITUS, M.D.....	Assistant Obstetrician

Eye, Ear, Throat, and Nose

EDWARD GRANT SEIBERT, M.D.....Laryngologist and Ophthalmologist

Neurology

BENJAMIN RUSH LOGIE, M.D.....Neurologist

Radiography

WALTER HIBBARD MERRILL, M.D.,
Electro-Therapeutist and Radiographer

Dermatology

CHARLES AUGUSTUS SIMPSON, M.D.....Attending Dermatologist

Pathology

JOHN BRADFORD BRIGGS, M.D.....Pathologist

Laboratory

FRANK ADELBERT HORNADAY, M.D.....Director

Medical Building

HENRY KNOX CRAIG, M.D.....Librarian
ROBERT MAURER, AB., LL.M.,

Official Evaluator for Premedical Education

PATRICK P. VANE.....Superintendent of the Building

ANNA ELIZABETH SELLNER.....Secretary to the Dean

HISTORICAL

The *Medical School of the George Washington University*, in the chronological order of establishment, is the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an act of Congress approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years thereafter, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required, and in 1893 attendance on four annual courses was made obligatory upon all candidates for the degree of Doctor

of Medicine. In order to increase the facilities for actual bedside teaching, the University Hospital and the University Dispensary were established in 1898 and made a part of the Medical School. In 1902 the old Medical School building, in which the exercises had been held since 1867, gave place to the present large and commodious structure.

EDUCATIONAL POSITION

The Medical School of the University has been for several years a member of the Association of American Medical Colleges. It is one of Medical Colleges designated as "class A," by the American Medical Association, and it is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

The degree of M.D. given by the University is recognized as evidence of adequate medical education by every medical examining board in the United States and with credentials of required preliminary education, will admit the holder of the degree to any state or governmental examination.

These facts guarantee the character of the work done by the School and insures its students and graduates all the advantages which accrue from such association and recognition.

BUILDINGS AND OTHER FACILITIES

Buildings of the Medical Department

All the buildings adjoin each other and consist of the Medical School Building and the University Hospital and the University Dispensary. They are most advantageously situated in the heart of the city within one block of both systems of car lines. As the Hospital and Dispensary adjoin the School, their clinical facilities are easily accessible to the students, and the pathological material and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary are directly used in the School laboratories.

Medical School Building.—A modern commodious, five-story structure, with spacious, well-lighted, well-ventilated lecture and class rooms, laboratories, and students' rooms. It has an elevator service, and is equipped throughout with steam heat, gas, electricity, and all modern improvements.

Laboratories.—Six in number (for anatomy, chemistry, physiological and clinical chemistry, histology and embryology, physiology and pharmacology, and bacteriology and pathology) are fully equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research methods.

University Medical Library.—Open for study and consultation from 9 a.m. to 9 p.m. with a Librarian who is a graduate of Medicine in charge. It contains at present more than 3,000 volumes, and provision is made to

add to it as published the important new works on medicine. The most important medical periodicals are regularly received. The Library is an excellent working collection, as it affords opportunity to read up adequately on the subjects presented in the courses.

Pathological Museum.—Contains a great many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

ADVANTAGES OF LOCATION

Advantages of Washington as a place for pursuing the study of medicine

This city now has nearly half a million inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of over three thousand beds. In these hospitals clinical instruction, in addition to that in the University Hospital, is given by members of the Faculty.

The *great libraries and museums* connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's Office of the United States Army is the most complete medical library in the world, and all leading medical periodicals of the world are subscribed for. All the facilities of this great library are open to *medical students*. There is also the Library of Congress, the Public Library, and the many excellent libraries of the various Government offices, all of which are open to students.

The *Army Medical Museum* affords an unrivaled opportunity for studying the conditions met with in military and general surgery. It contains on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy and the National Museum which contains the most complete and best arranged collection of *materia medica* in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture, all afford opportunities for study both in medicine and its collateral sciences.

On account of the many advantages offered in this city, the *Army and Navy Medical Schools* have been here located. The Alumni of this School are largely represented in all public services, and have been highly successful in passing the rigid examinations given by them. Ten per cent of the total number of the regular medical corps of the United States Army are graduates of this School.

Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty, and its interests, which, as it is the seat of the General Government, are broad and national, make it an ideal place for a medical student to pass his four years of study.

ADMISSION

The requirements for admission to the Medical School for the session 1914-15 are as follows:

Candidates for matriculation must present creditable certificates of good moral character from two physicians in good standing.

The educational requirements for admission are:

A. The minimum requirement for admission is one year of college work in Physics, Chemistry and Biology, preceded by fourteen units of secondary school work made up as follows:

Seven Required Units.—English (Reading and Practice), 2 units; Algebra to quadratics, 1 unit; Plane Geometry, 1 unit; German or French, or Latin or Greek, 2 units; History, 1 unit.

Seven Elective Units.—To be selected from the following: English, Mathematics, Latin, Greek, German, French, Spanish, Scandinavian, Science with laboratory work, Agriculture, Drawing, Manual Training, Domestic Science, Music.

B. A Bachelor's degree from an approved college or University.

A unit is the credit value of 36 weeks' work of five recitation periods per week, each period to be not less than 40 minutes. A point is a subject pursued through one-half the above time. Two points may be considered the equivalent of one unit.

An examination is given by the University in the latter part of May and September of each year to students who are deficient in whole or part of the subjects required for entrance to the Premedical Course. Candidates desiring examination must submit an application for the examination and submit certificates of character to the Dean before the first of the month in which they desire to be examined.

Certificates from reputable instructors recognized by the State Board of Medical Examiners duly authorized by law or by the Superintendent of public instruction in States having no examining board may be accepted in lieu of any part of the examination.

As the laws relating to the preliminary educational qualifications required of physicians differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

PRELIMINARY (PREMEDICAL) YEAR

A preliminary year is offered by the University to meet the requirement of a year of College work necessary to enter the freshman class in Medicine. This year is given in Columbian College (Department of Arts and Sciences). Students desiring to take this year will be ad-

mitted on the *fourteen* unit entrance requirement set forth on page 141 of this catalogue and will be required to pursue the full year's courses, both didactic and laboratory in Biology, Physics and Chemistry.

ADMISSION TO COLUMBIAN COLLEGE

Applicants for admission to the Freshman Class in Columbian College for the combined courses leading to the degrees of Bachelor of Arts or Bachelor of Science in Medicine and Doctor of Medicine must meet the general admission requirements of *fifteen* units. A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. *The fifteen units of the entrance requirements must include English, 3 units; Mathematics, 2½ units; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

COURSES AND DEGREES OFFERED BY THE UNIVERSITY IN ADDITION TO OR IN COMBINATION WITH THE COURSE FOR THE DEGREE OF DOCTOR OF MEDICINE

The states of North Dakota, Iowa, Minnesota, South Dakota, Colorado, Indiana and Kentucky now require applicants for the practice of medicine to have two years of college work in addition to graduation in medicine.

To students who intend to practice in these states or who desire two years of college work before entering upon the study of medicine, the University offers a six-year combination course, by which a student may meet the requirements of these states and at the same time obtain the degree of Bachelor of Science in Medicine and Doctor of Medicine.

Six-year course for the Degree of Bachelor of Science in Medicine and Doctor of Medicine

Regular students enrolling for this course will complete two years of work aggregating at least thirty-six prescribed hours in Columbian College, and the four-year course in the Medical School. On the completion of this six-year course the student will receive at the same time the degree of Bachelor of Science in Medicine and Doctor of Medicine. The curriculum requirement for this combined six-year course is as follows:

a. Columbian College:

SUBJECT	HOURS
Biological Sciences:	
Zoology 1.....	3
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
German, French, or Spanish.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
	—
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b. Medical School:

The four-year course for the degree of Doctor of Medicine.

Seven-year course for the Degree of Bachelor of Arts and Doctor of Medicine

Regular students in this course will complete at least forty-eight hours, as prescribed in Columbian College, and the four-year course in the Medical School. On the completion of the prescribed forty-eight hours of work in Columbian College and the first year of the regular course in Medicine, the student will receive the degree of Bachelor of Arts.

The forty-eight hours of prescribed subjects in Columbian College are as follows:

Columbian College:

SUBJECT	HOURS
Biological Sciences:	
Zoology 1, 2.....	6
Botany 1.....	3
Chemistry 1, 2, 23.....	7
English 1 or 2.....	3
German.....	6
French or Spanish.....	6
History.....	3
Mathematics 3 or 6.....	3
Physics 3 and 2.....	5
Psychology and Logic.....	3
Economics, History, or English.....	3
	—
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ADMISSION OF STUDENTS FROM OTHER SCHOOLS

Students who have attended one or more terms at any other medical college in good standing, and who have the necessary preliminary educational requirements, may be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter, or upon presenting certificates of examination covering courses equal to those in this School.

Students who have been in attendance upon an Arts course in other accredited colleges or universities may be admitted to advanced standing in any of the premedical courses offered by the University upon examination or upon presentation of properly certified evidence of satisfactory completion of work for which credit is asked.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students to any of the courses, provided they have the educational attainments which will enable them to pursue properly the studies they elect.

ACADEMIC YEAR

The *Academic Year* begins on the last Wednesday in September and ends on the Wednesday following the Wednesday nearest the first day of June. It is divided into two semesters of four months each.

The term of study for the degree of Doctor of Medicine consists of four years of thirty-two weeks each, exclusive of vacations and holidays. The next session, the ninety-second, begins September 30, 1914, and ends June 9, 1915.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

SYSTEM OF INSTRUCTION

Instruction is carried on by laboratory work, lectures, recitations, bedside instruction, and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinical material of the University Hospital and Dispensary is utilized to the fullest extent, as the Hospital, the Dispensary, and the Medical School are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While the greatest stress is laid upon laboratory work and clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine. To this end didactic lectures are maintained in certain branches, as they have been found necessary to give a systematic and comprehensive idea of the larger subjects in medicine. These lectures are followed by systematic and thorough quizzes, so that it may be certain that the students properly and thoroughly grasp the ideas presented by the lecturers.

The recitation and quiz work is made so complete that students do not need to employ private quizmasters.

The object sought throughout the courses is to ground thoroughly the students in the knowledge which is necessary to a practitioner of medicine. No particular attempt is made to graduate specialists in any subject. It is believed that the four years allowed are no more than sufficient time for the adequate preparation of the general practitioner.

The policy adopted by the School is to give a comprehensive, well graded and well-proportioned course—one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Boards.

ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table. Major subjects are in italics:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
<i>Anatomy.</i>	<i>Anatomy.</i>	<i>Medicine.</i>	<i>Medicine.</i>
<i>Histology.</i>	<i>Physiological</i>	<i>Surgery.</i>	<i>Surgery.</i>
<i>Embryology.</i>	<i>Chemistry.</i>	Surgical	Orthopædics.
<i>Physiology.</i>	<i>Pathology.</i>	Pathology.	Genito-Urinary
<i>Chemistry.</i>	<i>Bacteriology.</i>	Fractures and	Diseases.
	<i>Clinical</i>	Dislocations.	Operative
	Microscopy.	<i>Obstetrics.</i>	Surgery.
	Materia Medica.	<i>Therapeutics.</i>	Gunshot
	Pharmacology.	Radiography	Wounds.
	Minor Surgery.	Radiotherapy	<i>Obstetrics.</i>
	Physical	<i>Gynecology.</i>	<i>Gynecology.</i>
	Diagnosis.	Medical	Laryngology
	Pathological	Jurisprudence.	and Otology.
	Physiology.	Clinical	Ophthalmology
	Hygiene.	Chemistry.	Dermatology.
	Psychology	Dietetics.	Psychiatry.
		Physical	Pediatrics.
		Diagnosis.	Neurology.
		Tropical	<i>Clinics.</i>
		Medicine.	
		<i>Clinics.</i>	

The *clinics* above listed comprise the medical, surgical, and other clinics given in the third and fourth years, and are as hereafter noted under the announcements of the different clinical subjects.

OUTLINE OF CURRICULUM

Hours of Required Work in Each Subject

(On the basis of 32 actual weeks in each year)

SUBJECTS	YEARS	HOURS	
		Totals* Didac- tic, Lab. and Clinical	Didactic not to exceed
Anatomy.....	I	490	90
Anatomy.....	II	168	30
		— 658	— 120
Histology and Embryology.....	I	224	60
		— 224	— 60
Chemistry.....	I	310	90
Chemistry.....	II	98	30
		— 408	— 120
Physiology.....	I	184	72
Physiology.....	II	68	32
		— 252	— 104
Psychology.....	II	32	32
		— 32	— 32
Bacteriology.....	II	126	30
Pathology.....	II	282	60
		— 408	— 90
Hygiene.....	II	32	32
		— 32	— 32
Dietetics.....	III	24	24
		— 24	— 24
Pharmacology.....	II	140	28
Materia medica.....	II	40	40
Therapeutics.....	III	64	64
Radiotherapy.....	III	8	8
		— 252	— 140
Gynecology.....	III and IV	144	48
		— 144	— 48
Obstetrics.....	III and IV	192	64
		— 192	— 64

* The number of hours represents the amount of time each student devotes to the course. In addition to the hours scheduled in the third and fourth years, each student is required to do satisfactorily considerable practical work: he is assigned to cases in the University and Garfield Hospitals, is required to assist at operations, to attend cases of labor, administer anaesthetics, attend autopsies, and to take the history of cases. Fully 120 hours annually are required to do this unscheduled work.

SUBJECTS	YEARS	HOURS (continued)	
		Totals* Didac- tic, Lab. and Clinical	Didactic not to exceed
Medicine.....	II, III, IV		
General Medicine.....		606	200
Clinical Microscopy and Clinical Pathology.....		64	0
Physical Diagnosis.....		80	40
Tropical Diseases.....		12	12
Dermatology.....		48	12
Pediatrics.....		120	18
Neurology.....		64	24
Psychiatry.....		42	12
Medical Jurisprudence.....		30	30
		— 1066	— 348
Surgery.....	II, III, IV		
General Surgery.....		540	144
Minor Surgery.....		40	20
Surgical Pathology.....		12	12
Radiography.....		16	0
Fractures, etc.....		16	16
Military Surgery.....		8	8
Ophthalmology.....		64	16
Otology and Laryngology.....		60	24
Genito-Urinary Surgery.....		48	16
Orthopedies.....		48	16
		— 852	— 272
Grand totals.....		4536	1454

The number of clinic hours as given in this announcement is tentative only for, owing to the changes made necessary by the advanced admission requirements the schedule for the third and fourth years has not been completed at the time of publication of this catalogue.

ANATOMY

CARL LAWRENCE DAVIS, M.D.....Professor
 OSCAR BENWOOD HUNTER, M.D.....Professor of Histology and
 Embryology and Associate Professor of Anatomy

The instruction in the various anatomical sciences—gross human anatomy, neurology, embryology and histology—is carried on by the Division of Anatomy of which the Professor of Anatomy is the head.

This insures complete correlation of the various anatomical branches and adequate instruction in each.

During the first year the course in Gross Anatomy is given mainly by practical laboratory work.

Osteology and Syndesmology are taught by recitations and demonstrations at the beginning of the course, preparatory to the more advanced studies in anatomy. Complete disarticulated skeletons are loaned to the students, so that they may familiarize themselves with the osteological features of the various parts during their dissection. Each student is required to dissect satisfactorily the lateral half of a cadaver. The dissecting room work is supplemented by demonstration, recitation and lectures, illustrated by lantern slides, models, diagrams and special dissections. The systematic study of the gross and minute anatomy of the central nervous system and organs of special sense is pursued by means of lectures, recitations, and laboratory work.

In the second year a course in topographical anatomy is given, in which recitations and laboratory demonstrations, frozen sections and special dissections are used to familiarize the student thoroughly with the subject.

Throughout the course every opportunity is taken to emphasize the application of anatomy to the practice of medicine in all its departments.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Anatomy.....	I	490	90
Anatomy.....	II	168	30
		— 658	— 120

In Histology instruction is given in the care and use of the microscope and in the preparation of tissues (fixing, blocking, cutting, staining, etc) for microscopical examination, and a systematic study is made of the minute structure of the tissues and organs of the body, the laboratory work being supplemented by lectures, recitations and stereopticon demonstrations.

The course in Embryology is devoted to the study of Vermes, showing maturation, impregnation, segmentation, etc., and to series of chick and mammalian embryos, special stress being laid upon the development of the foetal membranes and organs. Lectures, recitations and demonstrations with laboratory models are also given.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Histology and Embryology.....	I	224	60
		— 224	— 60

PHYSIOLOGY

SHEPHERD IVORY FRANZ, Ph.D.....	Professor
JOSEPH DUERSON STOUT, A.B., M.D.....	Associate Professor
HENRY RANDALL ELLIOTT, M.D.....	Associate

The course in physiology consists of lectures, recitations, demonstrations, laboratory exercises and conferences during the first year. It begins in the second half of the first semester, so that the student is, almost at the beginning of his course in medicine, introduced to the functional viewpoint in his work. In the first semester general physiology is taken up both by lectures and laboratory exercises. In the second semester more intensive work is done, and the physiology of the bodily systems is considered. The functions of the nervous system and special senses, of the blood, of the heart and circulatory system, of glands, of the respiratory mechanisms, and of reproduction are considered by means of lectures and recitations, and, as far as possible, experimentally. In the laboratory each student performs the main experiments illustrating the facts regarding bodily function, and demonstration experiments are given of those functions which are too complex for the student to perform by himself. In this laboratory work each student is required to keep records of his experiments, and each experiment is supervised and the record criticized and checked by one of the instructors before the student leaves the laboratory for the day. The class is divided into sections for oral recitations, which are supplemented by written recitations.

In the second year a series of laboratory exercises on the physiological action of drugs is given (see the announcement under Department of Pharmacology and Therapeutics), and in conjunction with that laboratory work lectures are given and recitations are held in which the functional disturbances in disease are considered. In this course special attention is given to the abnormalities of action of the heart and circulatory system, to the mechanical disturbances in respiration, and to the disturbances of the nervous system and the special senses. Abnormalities of metabolism, matters which are almost exclusively chemical, are not taken up in this course. By this course it is intended to bring the course in normal physiology into closer relations with the succeeding courses in Pathology, Therapeutics and General Medicine.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Physiology.....	I	184	72
Physiology.....	II	68	32
		— 252	— 104
Psychology.....		32	32

CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor
FRANK ADELBERT HORNADAY, S.B., M.D.....Associate Professor

Inorganic Chemistry.—A series of recitations, in which the subject is reviewed and its relation to medicine emphasized.

Qualitative Analysis.—A brief course, with stress upon its application in medicine.

Organic Chemistry.—A series of lectures, laboratory work, and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine.

Physiological Chemistry.—A series of lectures, laboratory work and recitations on the proximate principles of the human body.

Clinical Chemistry.—A thorough course is given in which material from the University Hospital and Dispensary is utilized to show the practical application of this subject in medicine.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Chemistry.....			
Inorganic Review	I	310	90
Qualitative Analysis			
Organic	II	98	30
Physiological.....			
		— 408	— 120
*Clinical Chemistry.....	III	48	12

*See also announcement under Medicine.

MATERIA MEDICA AND THERAPEUTICS

BUCKNER MCGILL RANDOLPH, M.D.	Professor
NOBLE PRICE BARNES, M.D.	Associate Professor
JOSEPH DUERSON STOUT, A.B., M.D.....	Associate
HENRY RANDALL ELLIOTT, M.D.....	Associate
WALTER HIBBARD MERRILL, M.D.....	Instructor
WILLIAM J. FRENCH, M.D.....	Instructor
J. IRVING SLOAT, M.D.....	Instructor
HENRY W. JAEGER, M.D.....	Instructor

Second Year.—(1) Lectures upon *Materia Medica*, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) Demonstrations of drugs. (5) The laboratory course in connection with the study of *Pharmacology* consists of practical instruction and experiments in pharmacodynamics. The student performs experiments showing the effects of certain drugs on digestion and investigates the physiological actions of such drugs as Morphine, Atropine, Aconite, Strychnine, Digitalis, Veratrine, Physostigmine, Cocaine, Extr. Suprarenal glands, etc., and the effects of acids and alkalies in varying strength on the skin, mucous membrane and other tissues.

Third Year.—(1) Systematic lectures and recitations on the physiological action of drugs and other remedial agents, as demonstrated by lab-

oratory experiment and clinical application; their therapeutic use in disease; their modes of administration; and a review of their toxicology. (2) A review of the principles of prescription writing, with practical exercises by students in writing prescriptions in the metric and English systems. (3) Lectures in applied therapeutics, devoted to the study of the application of remedial measures to morbid physiological and pathological states, as they occur clinically. (4) Lectures and section demonstrations in electro-therapeutics and Roentgen therapy.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Pharmacology.....	II	140	28
Materia Medica and Toxicology...	II	40	40
Therapeutics.....	III	64	64
Radiotherapy.....	III	8	8
		— 252	— 140

DIETETICS

JOHN BENJAMIN NICHOLS, M.D.....Associate

A thorough course of lectures on the principles of feeding in health and disease.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic
Dietetics.....	III	24	24

PATHOLOGY AND BACTERIOLOGY

JOHN BRADFORD BRIGGS, S.B., M.D.....Professor

HENRY KNOX CRAIG, M.D.....Associate Professor

J. A. F. PFEIFFER, M.D.....Special Instructor

Bacteriology.—The first part of the session is devoted to a laboratory course of instruction in the fundamental principles and methods of pure bacteriology. A thorough drilling is given in the preparation of culture media, in sterilization and disinfection, staining, and in the several methods of differentiating bacteria.

Pathology.—The course in Pathology comprises general and special pathology. Post-mortem examinations will be utilized when possible. Coincidentally with the above is included the study of the principal pathogenic bacteria: the principles of immunity and serum therapy.

The course of instruction in special pathology will include the study of those processes requiring surgical relief; the healing of wounds and other injuries; of special diseases, neoplasms, and problems of experimental pathology.

The course in *Clinical Microscopy* comprises the study and examination of various tissues, fluids, and material from the standpoint of diagnosis.

SUBJECT	YEARS	HOURS	
		Totals Didactic and Lab.	Didactic not to exceed
Bacteriology.....	II	126	30
Pathology.....	II	282	60
		— 408	— 90
*Clinical Microscopy.....		64	0

MEDICINE

STERLING RUFFIN, M.D.....Professor
 GEORGE NICHOLAS ACKER, A.M., M.D.,

Professor of Pediatrics and Clinical Professor of Medicine

THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology

WILLIAM CREIGHTON WOODWARD, LL.M., M.D.,

Professor of Medical Jurisprudence

WILLIAM ALANSON WHITE, M.D.,

Professor of Psychiatry and Clinical Professor of Neurology

JAMES DUDLEY MORGAN, A.B., M.D.,

Clinical and Associate Professor of Medicine

EDGAR PASQUAL COPELAND, M.D.,

Professor of Hygiene and Associate in Pediatrics

LOUIS MACKALL, M.D.....Clinical Professor of Medicine

EDWARD RHODES STITT, A.B., M.D.....Professor of Tropical Medicine

JOHN BENJAMIN NICHOLS, M.D.....Associate in Medicine and Dietetics

WALTER ASHBY FRANKLAND, M.D.....Clinical Associate in Medicine

FRANK LEECH, M.D.....Clinical Associate in Pediatrics

WILLIAM CABELL MOORE, M.D.....Associate in Medicine

CHARLES AUGUSTUS SIMPSON, M.D.....Associate in Dermatology

COURSEN BAXTER CONKLIN, M.D.....Associate in Medicine

CHARLES WILBUR HYDE, M.D..Instructor in Medicine and Anaesthesia

BENJAMIN RUSH LOGIE, M.D.....Instructor in Neurology

GEORGE HENRY SCHWINN, M.D., Instructor in Psychiatry and Neurology

WILLIAM JOHNSTON MALLORY, M.D.....Instructor in Medicine

BERNARD GLUECK, M.D.....Instructor in Psychiatry

Instruction in Medicine is so given as to conform to the most modern requirements. The work begins in the second year with a complete course in history-taking and normal physical diagnosis, and is continued through the third and fourth years. During the latter two years the course consists of lectures, recitations, a study of case histories, clinical conferences, and practical work in the clinical laboratory and at the bedside. The work is made as practical as possible.

* See also announcement under Medicine.

The third-year class is divided into small sections, which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the daily ward clinics in the University Hospital and ward clinics in the Garfield Memorial Hospital, Children's Hospital, and the Tuberculosis Hospital of the District of Columbia.

The system of ward clinics to small groups of students afford a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of illness; in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to one, or at most two, senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheater clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of special neurological clinics is provided for the senior class at the Government Hospital for the Insane, where there is a great wealth of material (see announcement of Psychiatry and Clinical Neurology).

SUBJECT	YEARS	HOURS	
		Total Didactic Lab. and Clinical	Didactic not to exceed
Medicine.....	II, III, IV		
General Medicine.....		558	188
*Clinical Microscopy and clinic- al pathology.....		64	0
†Clinical chemistry.....		48	12
Physical Diagnosis.....		80	40
Tropical Diseases.....		12	12
Dermatology.....		48	12
Pediatrics.....		120	18
Neurology.....		64	24
Psychiatry.....		42	12
Medical Jurisprudence.....		30	30
		— 1066	— 348

* See also announcement under Bacteriology and Pathology.

† See also announcement under Chemistry.

TROPICAL MEDICINE

EDWARD RHODES STITT, A.B., M.D., Surgeon U.S.N.....Professor

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

PSYCHIATRY AND CLINICAL NEUROLOGY

WILLIAM ALANSON WHITE, M.D., Superintendent of the
Government Hospital for the Insane.....Professor
BENJAMIN RUSH LOGIE, M.D.....Instructor
GEORGE HENRY SCHWINN, M.D.....Instructor
BERNARD GLUECK, M.D.....Instructor

A series of lectures and clinics is given upon the subject of insanity in its various forms.

These clinics are given at the Government Hospital for the Insane, which, with its more than two thousand beds, affords one of the largest clinics in this country.

Students are taught in the same classes with students of the Army and Navy Medical Schools.

PEDIATRICS

GEORGE NICHOLS ACKER, A.M., M.D.....Professor
EDGAR PASQUAL COPELAND, M.D.....Associate
HARRY HAMPTON DONNALLY, M.D.....Clinical Associate
FRANK LEECH, M.D.....Clinical Associate

Didactic and clinical lectures, bedside and dispensary clinics are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

The children's clinic, at the Children's Hospital, affords ample material for practical teaching in this branch.

PHYSICAL DIAGNOSIS

WILLIAM CABELL MOORE, M.D.....Associate

A complete course is given in this subject by means of recitations, section work on normal subjects, and with clinical cases which typically represent diseased conditions.

DERMATOLOGY

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor
CHARLES AUGUSTUS SIMPSON, M.D.....Associate

The lectures in this course will be principally clinical, supplemented by didactic lectures, illustrated by diagrams, models, and photographic illustrations of disease from life.

MEDICAL JURISPRUDENCE

WILLIAM CREIGHTON WOODWARD, LL.M., M.D.....Professor

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

SURGERY

WILLIAM CLINE BORDEN, M.D.....Professor

DANIEL KERFOOT SHUTE, M.D.....Clinical Professor of Ophthalmology

CHARLES WILLIAMSON RICHARDSON, M.D.,

Professor of Laryngology and Otology

AURELIUS RIVES SHANDS, M.D.....Professor of Orthopedic Surgery

FRANCIS RANDALL HAGNER, M.D. Professor of Genito-Urinary Diseases

ARTHUR AUGUSTIN SNYDER, M.D.....Clinical Professor of Surgery

JOHN RYDER WELLINGTON, M.D.....Clinical Professor of Surgery

WILLIAM KENNEDY BUTLER, M.D.....Professor of Ophthalmology

LUTHER HALSEY REICHELDERFER, M.D...Clinical Professor of Surgery

LOUIS ANATOLE LA GARDE, M.D.....Professor of Military Surgery

OSCAR ADDISON MACK McKIMMIE, M.D.,

Clinical Professor of Laryngology and Otology

DANIEL WEBSTER PRENTISS, M.D.....Clinical Associate in Surgery

CHARLES STANLEY WHITE, M.D.....Associate in Surgery

WILLIAM FRANCIS MATTINGLY SOWERS, M.D.....Associate in Surgery

EDWARD GRANT SEIBERT, M.D.....Instructor in Ophthalmology

HOBART SOUTHWORTH DYE, M.D.,

Instructor in Laryngology and Otology

EDWARD THOMAS MURDAUGH FRANKLIN, M.D.....Instructor in Surgery

CHARLES WILBUR HYDE, M.D.....Instructor in Surgery

CLINE N. CHIPMAN, M.D.....Instructor in Surgery

HARRY HYLAND KERR, M.D.....Instructor in Surgery

WILLIAM HENRY HUNTINGTON, M.D.,

Instructor in Laryngology and Otology

The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. These lectures are followed by recitations, so that the subject-matter may be thoroughly impressed upon the students. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the Faculty, is directly used throughout the course to illustrate the subjects taught and to familiarize the students with actual clinical conditions.

Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the

patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anaesthetics.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the Faculty are attached. Amphitheater clinics are given, in which the general practice of surgical diagnosis and operative technique and therapeutic procedure are shown.

Ward clinics and bedside instruction are made a prominent part of the course. The classes are divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals and dispensaries. Senior students are assigned in rotation to individual cases in the wards of the University Hospital.

Practical work is required of each student in the preparation of dressings and sterilization of instruments. Each student is required to give, under instruction, at least six anaesthesias and to assist in at least six operations.

In the fourth year a thorough course is given in operative surgery.

SUBJECT	YEARS	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Surgery.....	II, III, IV		
General Surgery.....		540	144
Minor Surgery.....		40	20
Surgical Pathology.....		12	12
Radiography.....		16	0
Fractures, etc.....		16	16
Military Surgery.....		8	8
Ophthalmology.....		64	16
Laryngology and Otology.....		60	24
Genito-Urinary Surgery.....		48	16
Orthopedics.....		48	16
		— 852	— 272

SURGICAL PATHOLOGY

WILLIAM FRANCIS MATTINGLY SOWERS, M.D..... Associate

Surgical pathology is taught by thorough instruction in the gross and microscopic appearance of surgical diseases and injuries, and by a systematic course of lectures and quizzes by which the etiology, pathology, symptomatology, and treatment of the surgical affections and their relations to each other are shown.

ORTHOPEDICS

AURELIUS RIVES SHANDS, M.D.....Professor

A course of lectures and recitations on the pathology, etiology, course, termination, and treatment of chronic joint diseases, with clinical instruction in the application of special apparatus and of plaster of Paris to the correction of deformities.

GENITO-URINARY DISEASES

FRANCIS RANDALL HAGNER, M.D.....Professor

A thorough course of instruction in genito-urinary diseases is given by lectures, recitations, section clinics, and bedside teaching.

MILITARY SURGERY

LOUIS ANATOLE LA GARDE, M.D.....Professor

The treatment of gunshot wounds with special reference to civil practice is given in a course of lectures and demonstrations, fully illustrated by lantern slides, X-ray photographs, and actual specimens from the Army Medical School.

OPHTHALMOLOGY

WILLIAM KENNEDY BUTLER, M.D.....Professor

DANIEL KERFOOT SHUTE, A.B., M.D.....Clinical Professor

EDWARD GRANT SEIBERT, M.D.....Instructor

The course of lectures on this subject is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction.

LARYNGOLOGY AND OTOTOLOGY

CHARLES WILLIAMSON RICHARDSON, M.D.....Professor

OSCAR ADDISON MACK MCKINMIE, M.D.....Clinical Professor

EDWARD GRANT SEIBERT, M.D.....Instructor

HOBART SOUTHWORTH DYE, M.D.....Instructor

WILLIAM HENRY HUNTINGTON, M.D.....Instructor

The course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

OBSTETRICS

ALBERT FREEMAN AFRICANUS KING, A.M., M.D., LL.D.....	Professor
JULIAN MAYO CABELL, M.D.....	Clinical Professor
W. SINCLAIR BOWEN, M.D.....	Clinical Professor
HURON WILLIS LAWSON, S.B., M.D.....	Associate Professor
ELIJAH WHITE TITUS, M.D.....	Instructor

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, together with practical work. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin and receives practical instruction in external pelvimetry and the methods of abdominal palpation and auscultation during pregnancy. Recitations from text-books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections, each section being given bedside instruction, and the individual students being required to attend a stated number of cases.

The out-patient obstetrical service is large and thoroughly organized for instruction. Cases are usually referred several weeks before the expected date of confinement. Each case is promptly investigated by the instructor in charge and assigned to a student who in company with the instructor visits and examines the patient as soon as practicable and thereafter visits the patient at intervals of one week, and attends the case during labor. Students make post-partum visits daily for four days and every other day thereafter until the case is discharged by the instructor.

SUBJECT	YEARS	HOURS	
		Totals	Didactic
		Didactic and Clinical	not to exceed
Obstetrics.....	III and IV	192*	64

GYNECOLOGY

JOHN WESLEY BOVÉE, M.D.....	Professor
ALBERT LIVINGSTON STAVELY, M.D.....	Clinical Professor
GIDEON BROWN MILLER, M.D.....	Associate
WALTER ASHBY FRANKLAND, M.D.....	Associate
J. LEWIS RIGGLES, M.D.....	Associate
VIRGIL B. JACKSON, M.D.....	Instructor
DANIEL LERAY BORDEN, M.D.....	Instructor

* The total number of clinic hours cannot be given, as each student is required to attend ten cases, exclusive of the demonstration work and Ward and Dispensary Clinics above enumerated.

Gynecology as taught in the third year comprises a course of lectures and text-book recitations. In the fourth year individual students are assigned to cases in the wards of the University Hospital, and the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater and ward clinics given by the Professor of Gynecology and his assistants.

SUBJECT	YEARS	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Gynecology.....	III and IV	144	48

HYGIENE

EDGAR PASQUAL COPELAND, M.D..... Professor

The course in Hygiene is given principally by recitation from a prescribed text-book. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative control of public health.

SUBJECT	YEAR	HOURS	
		Total Didactic and Clinical	Didactic not to exceed
Hygiene.....	II	32	32

CLINICAL FACILITIES

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

University Hospital and the University Dispensary

H Street, between Thirteenth and Fourteenth Streets N. W. and adjacent to the Medical Building.—The Hospital and Dispensary are part of the educational equipment of the University. They are integral parts of the Medical School, are entirely controlled by the Faculty of Medicine, and are used primarily in instructing the students in clinical work. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually.

The staff is composed of members of the Faculty of Medicine.

Garfield Memorial Hospital

Florida Avenue and Tenth Street N. W.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital.

Members of the Faculty on the visiting staff: Professors CLAYTOR, MACKALL and MORGAN, Clinical Medicine; Professors SNYDER, WELLINGTON, and REICHELDERFER, Clinical Surgery; Professor STAVELY, Clinical Gynecology; Professor CARMICHAEL, Clinical Dermatology; Professors SHUTE and BUTLER, Clinical Ophthalmology; Professor HAGNER, Clinical Genito-Urinary Surgery; Professor YARROW, Consulting Physician; Drs. CABELL and BOWEN, Clinical Obstetrics.

Children's Hospital

W Street, between Twelfth and Thirteenth Streets N. W.—Regular instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department, to which students are regularly assigned for clinical instruction.

Members of the Faculty on the visiting staff: Professors KING and YARROW, Consulting Physicians; Professor WELLINGTON, Clinical Surgery; Professor ACKER and Drs. COPELAND, DONNALLY, and LEECH, Clinical Medicine.

Emergency Hospital and Central Dispensary

Fifteenth Street and Ohio Avenue N.W.—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in Clinical surgery, particularly in fractures and dislocations which are taught in regular clinics by the instructor in this subject.

Members of the faculty on the visiting staff: Professors HAGNER, Clinical Genito-Urinary Diseases; Drs. WHITE, PRENTISS, D. L. BORDEN and JACKSON, Surgery; Professor MORGAN and Dr. ELLIOTT, Clinical Medicine; Professor CARMICHAEL, Clinical Dermatology; Dr. MILLER, Clinical Gynecology; Professor SHANDS, Orthopedics; Professor SHUTE, Ophthalmology; Dr. FRENCH, Pediatrics.

Columbia Hospital for Women

Twenty-fifth Street and Pennsylvania Avenue N. W.—This hospital has 68 charity beds for diseases peculiar to women, and 50 charity maternity beds. Both the obstetrical and the gynecological services are particularly good and are fully utilized for students.

Members of the Faculty on the visiting staff: Professor BOVÉE and Dr. MILLER, Clinical Gynecology; Drs. KELLY, BOWEN, CABELL and RIGGLES, Clinical Obstetrics; Professor SHUTE, Ophthalmology; Professor RUFFIN, Visiting Physician.

The Government Hospital for the Insane

This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the

superintendent of the hospital, Professor W. A. WHITE, and Drs. SCHWINN and GLUECK. Other members of the Faculty on service at this hospital are Professor FRANZ; Professor SHUTE, Consulting Ophthalmologist; Professors RUFFIN, and MORGAN, Consulting Physicians.

Episcopal Eye, Ear, Throat, and Nose Hospital

Fifteenth Street, between L and M Streets N. W.—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital.

Members of the Faculty on its staff: Professor RICHARDSON, Clinical Otology and Laryngology; Drs. McKIMMIE, DYE and HUNTINGTON, Clinical Otology and Laryngology; Professor ACKER, Consulting Physician.

Lutheran Dispensary

Fourteenth and N Streets N. W.—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose.

Members of the Faculty on its staff: Professor BUTLER, Surgeon-in-Charge; Dr. SEIBERT, Ophthalmology; Professor ACKER, Consulting Physician.

Casualty Hospital

Massachusetts Avenue N. E.—Opportunities in emergency and dispensary work are offered by this institution.

Members of the Faculty on its staff: Professor ACKER, Consulting Physician; Dr. BARNES, Clinical Medicine.

Tuberculosis Hospital

Fourteenth and Upshur Streets N. W.—Members of the Faculty on its staff: Professors CLAYTOR and RANDOLPH, Clinical Medicine; Dr. REICHELDERFER, Clinical Surgery; Professor RICHARDSON, Ophthalmology.

CLASSIFICATION AND ADVANCEMENT OF STUDENTS

Students are divided into four classes, according to their proficiency and the time spent, viz: first year, second year, third year, and fourth year.

Proficiency in all subjects is marked on the scale of 100.

Examinations are held at the end of the course in each subject.

In determining the proficiency of a student his laboratory and clinical work, his quiz record, attendance, and result of examination are all considered.

To be advanced a student must obtain a general average of 75 or more in all subjects of the year, and must not fail in more than one major or two minor subjects.

Students who obtain a general average of 75 or more, but who fail in not more than one major or two minors, may be advanced *conditioned* and may be permitted at the next examination period a re-examination in the subjects in which they fail, but all conditions must be removed before a student can be again advanced.

Students who fail of advancement or graduation will not be allowed re-examination, except by special permission of the Faculty, and must repeat all subjects in which they obtained less than 85 during the year, and pass an examination on all majors of preceding years in which they obtained less than 85 before they can be advanced or graduated. Students who fail to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty. In special examinations a fee of \$5 will be charged for each subject. Students who fail to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses. Students will not be admitted to examination unless they have paid all fees due at the time.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other requirements herein set forth. He must have attended at least 80 per cent of all required instruction during four sessions of 32 weeks each in four separate years; must have satisfactorily completed all his courses and passed all his examinations. He must be present at the time specified for the final examinations, and also at Commencement. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges who desire degrees must spend one year in residence at this school.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction."

PRIZES

A prize from the Ordronaux Prize Endowment will be awarded under conditions determined by the University authorities.

Professor ACKER gives a prize for the best examination in Pediatrics.

Professor BUTLER gives a prize for the best examination in Ophthalmology.

Professor HAGNER gives a prize for the best examination in Genito-Urinary Diseases.

HOSPITAL APPOINTMENTS

Internes are annually appointed in the University Hospital. These appointments are made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

FEES AND CONTINGENT EXPENSES

1. Matriculation (payable but once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum, including all charges for materials	150
4. Graduation fee.....	10
5. Fee for a certificate under the seal of the University.....	2

A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.

Persons are allowed to register as auditors for the tuition fees without being required to take active part in the exercises or to pass examinations but no credit will be allowed for such attendance.

No registration will be accepted for less than a full semester, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological, and Clinical	
Microscopy Laboratory use.....	6

Matriculation, library, other fees and deposits are due in full in advance. Tuition may be paid in eight monthly installments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond of \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Dean.

WITHDRAWALS

Withdrawals will be granted only on recommendation of the Dean and the approval of the President.

A certificate of work actually done will be given to any student granted a withdrawal or a transfer to another school during the session. A written request for withdrawal or transfer must be filed with the Dean and no permission to withdraw or transfer, and no certificate of work done will be given a student unless all fees and dues chargeable against him up to the end of the month in which he withdraws have been paid.

BOARD AND ROOMS

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

For catalogues, application blanks, and further information, address

THE DEAN

Medical School,

The George Washington University,

1325 H Street N. W., Washington, D. C.

DENTAL SCHOOL

FACULTY

CHARLES HERBERT STOCKTON, LL.D....PRESIDENT OF THE UNIVERSITY
JOHN ROLAND WALTON, D.D.S.,

Dean and Professor of Prosthetic Dentistry and Orthodontia

DANIEL KERFOOT SHUTE, M.D. Professor of Neuro-Anatomy

HENRY CLAY THOMPSON, D.D.S. Professor of Operative Dentistry

CHARLES EDWARD MUNROE, Ph.D., LL.D. Professor of Chemistry

SHEPHERD IVORY FRANZ, Ph.D. Professor of Physiology

CHARLES STANLEY WHITE, M.D. Clinical Professor of Oral Surgery

JOHN BRADFORD BRIGGS, M.D. Professor of Bacteriology and Pathology

ARTHUR BARTON CRANE, D.D.S. Professor of Oral Surgery

NOBLE PRICE BARNES, M.D.,

Associate Professor of Materia Medica and Therapeutics

JOHN ROBERT DE FARGES, D.D.S. Associate Professor of Dental

Metallurgy, Jurisprudence, Economics, and Ethics

CHARLES TURK BASSETT, D.D.S.,

Associate Professor in Charge of the Dental Infirmary

ALLEN SCOTT WOLFE, D.D.S.,

Associate Professor of Crown and Bridge Work

CADMUS LINDEN ODOR, D.D.S.,

Associate Professor of Operative Technics

WILLIAM FRANCIS LAWRENCE, D.D.S.,

Associate Professor of Prosthetic Technics

D. DEWITT BEEKMAN, D.D.S.,

Associate Professor of Materia Medica and Therapeutics

FRANK ADELBERT HORNADAY, S.B., M.D.,

Associate Professor of Chemistry

HENRY KNOX CRAIG, M.D.,

Associate Professor of Bacteriology and Pathology

GEORGE MILLER SHARP, D.D.S.

Associate Professor of Orthodontia and Lecturer on Oral Prophylaxis

EUGENE ROGER STONE, D.D.S. Associate Professor of Oral Surgery

HARRY RANDALL ELLIOTT, M.D. Associate in Physiology

JOHN WINSLOW TAYLOR, D.D.S., Instructor in Prosthetic Technics

CHARLES GARDNER SHOEMAKER, D.D.S.,

Instructor in Operative Technics

HENRY CISSEL YOUNG, D.D.S., Instructor in Prosthetic Technics

HERBERT CORNWELL HOPKINS, D.D.S. Lecturer on Orthodontia

ALBERT PERKINS TIBBETS, M.D. Instructor in Anatomy

JAMES WALTER BERNHARD, D.D.S.,

Instructor in Crown and Bridge Work

GENERAL STATEMENT

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever-increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The next academic year begins on Wednesday, September 30, 1914, and ends on Wednesday, June 9, 1915. Students should register promptly at the office of the Dean at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. For further information communicate with the Dean of the Dental School.

ADMISSION

Candidates for matriculation must show that they are fitted by previous education to study dentistry. For this purpose they must present a satisfactory certificate of their attainments or they must pass an examination.

Candidates are admitted without examination:

1. Upon presenting a diploma or certificate of graduation from a four-year high school, or an equivalent certificate or diploma.
2. Upon presenting a certificate of admission to the Freshman class of a college having like admission requirements.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for graduation from an accredited four year high school.

Latin and Physics are required. An applicant deficient in either subject or both may be admitted to the first-year class conditioned, but conditions must be made up during the first year.

The scope of the different subjects is indicated in standard high school text-books.

A candidate may offer certificates of an approved school for work done in any preparatory subjects, and will be credited with the units represented by such work. A candidate failing to pass in two or three subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September at the Dental School.

COURSE OF INSTRUCTION

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Anatomy. Physiology. General Chemistry. Histology. Operative Technics. Prosthetic Technics. Special Anatomy.	Organic Chemistry. Operative Dentistry. Prosthetic Dentistry. Pathology. Materia Medica Operative Technics. Prosthetic Technics. Infirmary Practice. Bacteriology. Dental Histology. Orthodontia Technics. Infirmary Practice. Clinics.	Operative Dentistry. Orthodontia. Prosthetic Dentistry. Comparative Dental Anatomy. Oral Surgery. Orthodontia Technics. Metallurgy. Prosthetic Technics. Infirmary Practice. Dental Therapeutics. Dental Pathology. Dental Bacteriology. Oral Prophylaxis. Dental Jurisprudence, Economics and Ethics. Infirmary Practice. Clinics.

These studies are further described in the following pages.

Hours of recitation, daily from 4.50 p.m. to 10.30 p.m.; 6.30 to 7.30 p.m., dinner hour.

PROSTHETIC DENTISTRY AND ORTHODONTIA

JOHN ROLAND WALTON, D.D.S. Professor
GEORGE MILLER SHARP, D.D.S. Associate Professor

1. *Prosthetic Dentistry*.—All branches in this department will be under the supervision of the professor. He will deliver the lectures and manage in person and through his assistants the quiz work and course of instruction. This system will prevent confusion in method and technical procedures.

2. *Orthodontia*.—Junior year Orthodontia is a technical course with lectures and demonstrations. The Senior year is a review of the Junior studies with advanced lectures upon the irregularities of the teeth, local and constitutional. Each student is required to make a number of appliances upon models and practically correct cases of irregularity.

OPERATIVE DENTISTRY, DENTAL ANATOMY AND PATHOLOGY

HENRY CLAY THOMPSON, D.D.S.....Professor

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to dental pathology and therapeutics. This chair has personal supervision of the department of Operative Technics and the infirmary.

CHEMISTRY

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor
FRANK ADELBERT HORNADAY, S.B., M.D.Associate Professor

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principle of chemical philosophy, and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in dentistry; Organic Chemistry, with special attention to those organic compounds that are of practical use; laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

PHYSIOLOGY

SHEPHERD IVORY FRANZ, Ph.D.....Professor
JOSEPH DUERSON STOUT, A.B., M.D.....Associate Professor
HENRY RANDALL ELLIOTT, M.D.....Associate

This subject is taught in lectures, recitations, and laboratory exercises. In the lectures and recitations special emphasis is placed upon those parts of physiology that have a known bearing upon dental medicine and surgery, especially digestion, secretion, and the nervous system. Three laboratory periods a week during a semester give the student first-hand knowledge of the principal facts about the general functions of tissues, and the special functions of the nervous system, the special senses, the heart, circulation, digestion, and respiration.

ANATOMY

CARL LAWRENCE DAVIS, M.D.....Professor
OSCAR BENWOOD HUNTER, M.D.....Associate Professor

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver. The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and stereopticon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical as possible. The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

MATERIA MEDICA AND THERAPEUTICS

NOBLE PRICE BARNES, M.D.....	Associate Professor
D. DEWITT BEEKMAN, D.D.S.....	Associate Professor

Instruction in these subjects embraces:

The study of crude drugs and their preparations and the art of prescribing; the physiological action of drugs in the human system; the practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relation to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopoeia, prescription writing, and the compounding of prescriptions.

Special attention is given to those drugs that are of most value in the practice of dentistry.

ORAL SURGERY

CHARLES STANLEY WHITE, M.D.....	Clinical Professor
ARTHUR BARTON CRANE, D.D.S.....	Professor
EUGENE ROGER STONE, D.D.S.....	Associate Professor

Instruction in this subject consists of a systematic course of lectures, followed by recitations, and clinical teaching is carried on in the Infirmary and Hospital Dispensary. Amphitheatre clinics are given in the University and other hospitals to which the members of the Faculty are attached. A free bed in the University Hospital is at the disposal of this department. Operations and demonstrations on the cadaver form a valuable part of the course.

The lectures deal with applied anatomy, surgical bacteriology and pathology, surgical technique, wounds, hemorrhage, shock, surgical

diseases and injuries of the face, mouth and jaws, extraction of teeth and local and general anesthesia.

Students are expected to attend the amphitheatre clinics when notified and are required to present at least one case—history as a prerequisite to examination.

Text-Books and Works of Reference.—Blair, Surgery and Diseases of the Mouth and Jaws; Seudder, Tumors of the Jaws; Winters, Exodontia; Hewitt, Anesthetics.

HISTOLOGY

OSCAR BENWOOD HUNTER, M.D. Professor

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, affording valuable aid in illustrating and presenting the subject, is constantly used.

PATHOLOGY AND BACTERIOLOGY

JOHN BRADFORD BRIGGS, S.B., M.D. Professor
HENRY KNOX CRAIG, M.D. Associate Professor
J. A. F. PFEIFFER. Special Instructor

The course begins with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the student required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

PROSTHETIC TECHNICS

WILLIAM FRANCIS LAWRENCE, D.D.S. Associate Professor
JOHN WINSLOW TAYLOR, D.D.S. Instructor
HENRY CISSEL YOUNG, D.D.S. Instructor

The technic laboratories are thoroughly equipped for their particular work. The course in prosthetic technics extends through the Freshman, Junior, and Senior years.

The first year is a technical and didactic course. The students are taught the proper equipment of a dental laboratory; the preparation of the mouth for dentures; methods of taking impressions of the mouth and manipulation of the various impression materials; the preparation and mounting of models; selection and artistic arrangement of teeth; the construction of plastic dentures and crowns with general details.

In the Junior class the course is a review of the Freshman year with extended technical and didactic work, embracing a practical course in taking impressions, making models, dies, and casting; swaging, rimming, attaching teeth by rubber, and in general construction of metal dentures, crown and bridge work.

The Senior year is a practical course, embracing the swaging of plates, teeth attached by soldering, clasps, porcelain work, advanced bridge work, removable bridges, and the detailed construction of all work in prosthetic dentistry.

The work of the Department is under the immediate supervision of the associate professor.

OPERATIVE TECHNICS

CADMUS LINDEN ODOR, D.D.S. Associate Professor
CHARLES GARDNER SHOEMAKER, D.D.S. Instructor

This subject is taught by lectures, illustrated by enlarged models and drawings, together with demonstrations of instruments and materials. The students perform exercises in manipulative procedure under the direction of the instructors.

The subjects embraced in the course consist, first, of the study of dental nomenclature, that the student may acquire an understanding of the technical terms used in the course of his dental studies. This is followed by descriptive dental anatomy, and the forms and surface markings of each tooth studied, the natural teeth, as well as enlarged

models and drawings being used for the purpose. Each student is required to make various sections of the teeth for the thorough study of the pulp chambers and root canals and their relations to the external surface of the teeth.

That tooth-forms may be more perfectly impressed upon the mind of the students, each student is required to carve a tooth of the several classes, as incisor, cuspid, bicuspid, and molar, in bone or artificial ivory, representing the actual form and size of the natural organ. Cavities are classified and illustrated by drawings and models, followed by their preparation and filling in technic forms by the student. Treating and filling root canals is given full attention, the students performing operations of this kind upon natural teeth mounted for the purpose.

All work, in its relation to operative dentistry, is given the necessary consideration to fit the student for meeting, as far as possible, the actual requirements of the infirmary.

COMPARATIVE DENTAL ANATOMY

The senior students will study in this course the food habits and the teeth of animals. The forms of teeth and their uses as weapons of offense and defense will be studied.

CROWN AND BRIDGE WORK, GOLD INLAY, AND PORCELAIN

ALLEN SCOTT WOLFE, D.D.S.....Associate Professor
JAMES WALTER BERNHARD, D.D.S.....Instructor

Instruction in this course is systematically given by lectures and clinics. The course in technic extends through the Freshman, Junior, and Senior years.

Students are taught the principles and practice of inlay work, porcelain crowns, high and low fusing bodies, the use of the electric and gas furnaces.

METALLURGY

JOHN ROBERT DEFARGES, D.D.S.....Associate Professor

The subject of Metallurgy taught in the chemical laboratory will be reviewed and an extended course will be given in metals, alloys, and amalgams which are used in dentistry.

PROFESSIONAL ETHICS, DENTAL JURISPRUDENCE, AND ECONOMICS

These lectures on ethics consist of a brief statement of the moral obligations of professional men to each other and to their patients, the duty of upholding the honor and dignity of the profession, and the differences between the profession and business or manufacturing pursuits.

The lectures on jurisprudence will follow the text-book by Dr. Reh-fuss, which fully elucidates the legal relation of the dentist to his patients, the importance of dental records, the limitations of dental practice, the liabilities incurred by those who administer anaesthetics, the penalties, etc.

Economics.—This course will instruct the student in the proper methods to insure a practice and to retain patients; will discuss business relations between patients and dentist, fees, book and card systems, and the general economy in conducting an office.

ORAL PROPHYLAXIS

GEORGE MILLER SHARP, D.D.S. Lecturer

This subject will be taught didactically, and clinically practical work by the students in the treatment of the oral cavity will be required.

THE DENTAL INFIRMARY

CHARLES TURK BASSETT, D.D.S. Associate Professor in Charge
JOHN WINSLOW TAYLOR, D.D.S. Demonstrator
HENRY CISELL YOUNG, D.D.S. Demonstrator
EUGENE ROGERS STONE, D.D.S. Demonstrator

The Infirmary is open every week-day the entire year. An abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the demonstrator in charge, who is present from 1 until 5 o'clock.

CLINICAL STAFF

CAESARE LOUIS CONSTANTINI, D.D.S. Clinician in Charge
ARTHUR DURDAN WEAKLEY, D.D.S. Dentistry
THOMAS LOCKE RUST, D.D.S. Dentistry
GEORGE BERTRAM ROPER MACDONALD, D.D.S. Dentistry
WILLIAM CARL KILLINGER, D.D.S. Orthodontia
GEORGE MILLER SHARP, D.D.S. Special Crown Work
ZENAX WILBUR ALDERMAN, D.D.S. Electro-Therapeutics
ROBERT EDWIN LAYTON, D.D.S. Dentistry

TEXT-BOOKS AND WORKS OF REFERENCE

(The works first named and in *italics* are preferred.)

Anatomy.—Cunningham's *Text-book of Anatomy*; Cunningham's *Manual of Practical Anatomy*; Black's *Dental Anatomy*.

Physiology.—Text-books: Haliburton's *Physiology*; Howell's *Physiology*; Tigerstedt's *Physiology*.

Pathology and Bacteriology.—Delafield and Prudden's *Pathology*; Jordan's *Bacteriology*.

Chemistry.—Simon's *Chemistry*; Barha's *College Chemistry*; Holland's *Medical Chemistry*.

Materia Medica.—H. C. Wood's *Therapeutics*; Hare's *Practical Therapeutics*; A. A. Stevens' *Modern Materia Medica and Therapeutics*; Culbreath's *Materia Medica and Pharmacy*; National Dispensatory Reference Text-books, Osborne, Wilcox, Sollmann, Shoemaker, U. S. Pharmacopoeia and National Formulary; Prinz's *Dental Materia Medica and Therapeutics*; Modern *Dental Materia Medica*; Buckley's *Therapeutics and Pharmacology*; Dorland's *Medical Dictionary*.

Prosthetic Dentistry.—*The American Text-Book of Prosthetic Dentistry*; Essig's *Dental Metallurgy*.

Operative Dentistry.—Kirk's *Operative Dentistry*; Black's *Principles of Practice*; Tome's *Dental Anatomy and Surgery*; Taft's *Operative Dentistry*; Litch's *American System of Dentistry*; Johnson's *Operative Dentistry*.

Oral Surgery.—Blair's *Surgery and Diseases of the Mouth and Jaws*; Scudder's *Tumors of the Jaws*; White's *Exodontia*; DeWitt's *Anaesthetics*.

Histology.—Nichols, Bohm and Davidoff's *Histology*; Bromell's *Anatomy and Histology of the Mouth*.

Orthodontia.—Angle's *Treatment of Malocclusion of the Teeth and Fractures of the Maxilla*; Talbot's *Irregularities of the Teeth*; Jackson's *Orthodontia*.

Dental Jurisprudence.—Rehfuss's *Dental Jurisprudence*.

Dental Pathology and Therapeutics.—Burchard's *Dental Pathology and Therapeutics*.

Comparative Dental Anatomy.—Thompson's *Comparative Dental Anatomy*.

GRADUATION

Candidates for graduation must have attended three full courses of lectures, each of eight months' duration, and three courses of clinical instruction in this School, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. Should the student fail in his examination in course, he may be re-examined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular course. They may register at any time during the Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this School, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the demonstrators in charge with a well-constructed specimen of dental mechanism made by himself in the dental laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

COURSES IN ARTS AND SCIENCES

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours a week.

LOCATION

The Dental Building is No. 1325 H Street N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 724 9th Street N. W., on any week day, and also at the Dental Building, 1325 H Street N. W., on Tuesday and Thursday of each week at 4.30 p.m. during the session.

FEES AND CONTINGENT EXPENSES

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum, including all charges for materials.....	125
4. Fee for graduation.....	10
5. Fee for a certificate under the seal of the University.....	2
6. A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.	

No registration will be accepted for less than a full semester, and no change in the courses undertaken at the time of registration will be made unless approved by the Dean. *Withdrawals during the semester will be granted only on recommendation of the Dean and the approval of the President.*

Students are furnished microscopes at the following rates:

Microscope for histological laboratory use.....	\$5
Microscope for bacteriological, pathological, and clinical micro- copy laboratory use.....	6

The cost of instruments for the first year amounts to about \$20, and the cost of text-books to about \$30.

PAYMENT OF FEES

Matriculation, library, other special fees and laboratory deposits are due in full in advance. Tuition and laboratory material fees may be paid in eight monthly instalments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current academic year. Fees are payable at the office of the Treasurer, 2024 G Street, or at the office of the Medical School, 1325 H Street.

BOARD AND ROOMS

A register of boarding-houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

For catalogues, application blanks and further information, address
J. ROLAND WALTON, D.D.S., *Dean*,
724 9th Street N. W.

PART III
ASSOCIATED COLLEGES

NATIONAL COLLEGE OF PHARMACY
COLLEGE OF VETERINARY MEDICINE

Institutions in the District of Columbia organized as corporations under the Charter of the University, having separate financial foundations but educationally forming a part of the system of the University.

NATIONAL COLLEGE OF PHARMACY

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FACULTY OF THE NATIONAL COLLEGE OF PHARMACY

CHARLES HERBERT STOCKTON, LL.D. . . . PRESIDENT OF THE UNIVERSITY

HENRY E. KALUBOWSKI, M.D., Phar.D., Dean, and Professor of Pharmacy

HENRY H. HAZEN, S.B., M.D.

Professor of Materia Medica, Botany, and Toxicology

GEORGE A. MENGE, Ph.D. Professor of Chemistry and Physics

HOWARD M. BRADBURY, Phar.D. Professor of Analytical Chemistry

BURTON J. HOWARD, S.B. Professor of Microscopy

HENRY B. FLOYD, Phar.D. Professor of Mercantile Pharmacy

ALEXANDER MUNCASTER, Phar.D., LL.M.,

Professor of Pharmaceutical Jurisprudence

DOUGLAS TSCHIFFLEY, Phar.D. Assistant to the Professor of Pharmacy

LORING W. BEESON, Phar.D.,

Assistant to the Professor of General Chemistry

HOMER K. BUTLER, Phar.D.,

Assistant to the Professor of Analytical Chemistry

CALENDAR

1914

- September 17, *Thursday*—Admission Examination begins at 1 p.m.
in the Lecture Room of the College.
September 23, *Wednesday*—Forty-third Session begins.
November 26, *Thursday*—Thanksgiving Day, a holiday.

Recess from December 22, 1914, to January 4, 1915

1915

- February 22, *Monday*—a holiday.
May 12, *Wednesday*—Annual Examinations for promotion and
graduation begin.
June 10, *Wednesday*—Commencement.

GENERAL STATEMENT

The National College of Pharmacy, which is the outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an act of Congress in 1872, and opened its doors to students November 11 of that year. In February, 1906, it became a member of the educational system of The George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy, and the College is represented in the President's Council by its Dean.

The work of the College embraces courses in chemistry, botany, physiology, materia medica and toxicology, pharmacy and pharmaceutical laboratory work, analytical chemistry, microscopy, mercantile pharmacy, and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The College building is centrally located on I street northwest between Eighth and Ninth streets. It is easily reached by the principal street car lines of the city.

Preliminary Education and Examination

The College requires of its Matriculants a knowledge of the branches usually taught in the public schools of Washington, D. C., to the extent of three years in the high schools or its equivalent, and they must be at least seventeen years of age. Evidence of this may be shown by certificates from reputable teachers or by the results of an examination to be held at the College, at one o'clock p.m., THURSDAY, September 17, 1914.

Beginning with the session of 1916-17, candidates will be required to have four years' high school instruction or its equivalent.

SPECIAL COURSES

Students may select one or more of the branches taught and attend the lectures and laboratory work during the time set apart for such study.

Students taking single tickets are not entitled to take the examinations for the degree conferred by the College.

THE DEGREE

The degree conferred is *Doctor of Pharmacy*.

QUALIFICATIONS FOR THE DEGREE

1. The student shall have attended three courses of instruction in Chemistry, Pharmacy, Analytical Chemistry, Materia Medica, Botany, Physiology, Toxicology; and two in Microscopy, the last of which must have been in this College; and one course each in Mercantile Pharmacy and Pharmaceutical Jurisprudence.

2. He must have passed a satisfactory examination in each of the branches taught.

3. He must be recommended by the Board of Examiners.

MATERIA MEDICA, BOTANY, PHYSIOLOGY AND TOXICOLOGY

Freshman Course

Introduction to the study of Botany, Evolution, Properties of Living organisms, Growth of Plants, Internal Structure and Physiology of plants will receive proper attention, followed by a description of the Natural and Artificial systems of Botany.

Following will be a course of instruction in Animal Physiology, to include Body Tissues, Bone, Fibre, Cartilage, Muscle, Epithelium, Serous Tissue, Nerve Tissue, Blood and the Circulation.

Junior Course

Causes of disease, Trauma, Poisons introduced from without, the Bacteria, Immunity.

General Principles of Therapeutics, Rules for Dosage, Standardization of Drugs, to be followed in their regular order, the study of Drugs, classified according to their general or local effects.

Senior Course

General review of the Junior year work and continuation of the study of drugs, to include the coal tar group, toxins and anti-toxins vaccines Bacterins. Use of drugs hypodermically. This course to conclude with a special course of instruction in Toxicology.

PHARMACY

Freshman Course

This course is given to the study of the various pharmaceutical processes and operations. Following in the order named are lectures on

metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination, granulation, comminution, solution, filtration, clarification, decoloration, precipitation, crystallization, and extraction, during which the various methods used to bring about the desired results will be illustrated.

Junior Course

During a part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœial preparations, and such modifications as adapt them to special uses.

The latter part of this course is taken up with the study of official preparations obtained from the elementary bodies beginning with bromine, chlorine, iodine, phosphorus, and sulphur, following by carbon, boron, silicon, the inorganic acids, potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury; antimony, arsenic, bismuth, and gold.

Senior Course

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, and products obtained therefrom, amylaceous and saccharine substances; glucosides and alkaloids, volatile oils and animal products used in pharmacy, vegetable oils, soaps, and products from resins.

ANALYTICAL CHEMISTRY

The instruction in this Department is intended to present the chemical tests of the United States Pharmacopœia, with methods for the identification of substances and for the detection of impurities; to instruct in the methods of assaying and the use of volumetric solutions, and to enable students to analyze any ordinary mixture of inorganic material.

For the purpose of carrying out the work of this Department a large, well-equipped laboratory is provided with all the usual water and gas facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. These and other facilities afford students exceptional opportunities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry.

The second year covers a systematic course in qualitative analysis in connection with the test of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

GENERAL CHEMISTRY AND PHYSICS

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

MICROSCOPY

The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs, and requires full attendance from Junior and Senior students.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distinguished from another as well as to the detection and identification of the most common adulterants used.

MERCANTILE PHARMACY AND PHARMACEUTICAL JURISPRUDENCE

Attendance upon these courses is required from the Senior class only.

FEES

Matriculation.....	85
Tickets for the full year's course of instruction, Freshman	80
Tickets for the full year's course of instruction, Junior	85
Tickets for the full year's course of instruction, Senior.....	90
Single tickets for Chemistry, Materia Medica, Botany, and Toxicology, each.....	20
Single tickets for Analytical Chemistry.....	25
Single tickets for Practical Pharmacy	25
Single tickets for Microscopy.....	20
Single tickets for Mercantile Pharmacy.....	10
Single tickets for Pharmaceutical Jurisprudence.....	10
Fee for Diploma.....	10

For further information consult the Dean, HENRY E. KALUSOWSKI,
808 I Street N. W.

COLLEGE OF VETERINARY MEDICINE

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RALPH J. CARR, B.Sc.Assistant Professor in Feeds and Feeding

WILLIAM W. BRIDE, A.B., LL.B..Lecturer on Veterinary Jurisprudence

HARRY C. CRAIG, M.D.....Instructor in Bacteriology and Pathology

TUNIS HICKS, D.V.M.....Instructor in Veterinary Anatomy

CHAUNCEY M. GRUBB, D.V.M.....Instructor in Dairy Inspection

and Milk Hygiene, Dentistry and Obstetrics

HARRY A. LOCHBOEHLER, D.V.M.,

Instructor in Veterinary Materia Medica and Therapeutics

G. M. POTTER, D.V.M.....Instructor in Special Pathology, Infectious

Diseases and Meat Inspection

FRANK ALMON HUGINS, D.V.M.....Instructor in Horseshoeing

WALTER B. JESSEE, S.B.,

Instructor in Breeds and Breeding and Judging, and Zoötechnics

ARTHUR A. EISENBERG, A.B., M.D.....Instructor in Physiology

HARRY H. FETTER, Ph.G.....Instructor in Pharmacy and Botany

EDWIN H. INGERSOLL, S.B.....Instructor in Physiological Chemistry

REQUIREMENTS FOR ADMISSION

Students presenting a diploma from any recognized college, normal or high school are eligible to admission without examination.

Students not having the above qualifications will be required to pass an examination equivalent to a 2d grade Civil Service Examination, supplemented by History and Geography of the United States and its possessions. (U. S., B. A. I. Circular No. 150).

ADMISSION OF STUDENTS FROM OTHER SCHOOLS

Students of other recognized and approved veterinary schools may be admitted to this school as follows:

Those qualified to enter the second year of such a school may be admitted to the second-year class of this school, those qualified to enter the third year of their own school to the third year of this school; provided, however, that the subjects pursued by the applicants in their previous year or years are reasonably equivalent to those required in the same year or years in this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

EVIDENCE OF ATTENDANCE

At the end of the college year each student is entitled to a written statement giving the length of time spent in each study during the session and the grade received therein. This statement, or definite evidence of credit, shall be exacted from a student before he is given advanced standing in any veterinary college. (U. S. B. A. I. Cir. 150).

ADVANCED STANDING

Advanced standing will be given for degrees in Medicine, Dentistry, or Veterinary Medicine.

Students holding degrees in Arts, Science, Philosophy, or Agriculture who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this college, may upon satisfactory evidence of their proficiency be credited with such studies; provided, however, that such students shall devote two years' study in veterinary medicine, the last year of which is passed in this College.

SPECIAL STUDENTS

Students, approved by the Dean, not candidates for the degree of Doctor of Veterinary Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree.

of Doctor of Veterinary Medicine. Nor can such students enter upon the regular veterinary course without complying with all the regular requirements for admission.

CLASSIFICATION OF STUDENTS

Students are divided into four classes, according to their proficiency and the time spent, viz., first, second, third and fourth year. Students cannot advance to a higher class with more than one major and one minor condition. Students failing in any subject or subjects may be permitted at the next examination period a re-examination in the subjects in which they fail. The Faculty may dismiss any student from the College, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise, for the profession of veterinary medicine.

ORDER OF INSTRUCTION

The subjects studied in each year are shown in the following table:

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Anatomy	Anatomy	Theory and	Theory and
Histology	Physiological	Practice	Practice
Embryology	Chemistry	Bacteriology	Small Animal
Chemistry and	Pharmacy	Pathology and	Practice
Physics	Physiology	Laboratory	Surgery and
Laboratory	Hygiene	Diagnosis	Restraint
Chemistry	Breeds and	Surgery and	Therapeutics
Materia Medica	Breeding and	Restraint	Obstetrics
and Toxicology	Judging	Therapeutics	Veterinary
Botany	Dairy Inspection	Dentistry	Jurisprudence
Zoology	and Milk	Parasitology	Control of
	Hygiene	Soundness and	Infective
	Feeds and Feed-	Lameness	Diseases
	ing	Shoeing and	Meat Inspection and P.
	Clinics	Balancing	M. Examination
		Clinics	Clinics

For lecture, laboratory and dissecting hours a schedule card is furnished.

Clinical work in the veterinary and canine hospitals connected with the College and at abattoirs and stock and dairy farms is required of second, third and fourth year students.

ANATOMY

JOHN M. BUCK, D.V.M.....Assistant Professor
 TUNIS HICKS, D.V.M.....Instructor

The instruction in Anatomy is given in a series of lectures, demonstrations, recitations, and laboratory work, the latter being the most important.

The lectures are intended to present the general anatomical features of the horse and other domestic animals, and to point out the anatomical relations of the organs and parts of the body most subject to surgical operations.

The horse is used as the type subject in dissection, and every student is required to dissect all the parts of the horse, and such other of the domesticated animals, including the ox, sheep, swine, dog and cat, as may prove most expedient.

The laboratory is well supplied with all of the parts of the skeleton of the horse, and portions of the skeleton of various other domestic animals, for the work in osteology. Ample material is always available for the dissection of joints, muscles, viscera, and the vascular and nervous systems. The laboratory is also provided with a complete model of the horse, showing the relation of all the organs and parts of the body, for demonstrations in general and surgical anatomy. The course extends throughout the first and second years.

Text-book.—Sisson's Veterinary Anatomy.

HISTOLOGY AND EMBRYOLOGY

OSCAR BENWOOD HUNTER, M.D.....Professor

These subjects are taught by a series of carefully correlated lectures, recitations, quizzes and demonstrations, and will include such instruction in microscopy as a working knowledge of the use of the simple and compound microscope and accessories, supplemented by the fundamental laws of optics; the method of preparing tissues for microscopic examination, and the technique of mounting.

Comparative histology will deal with the minute structure of the tissues and organs of various animals, including man. In addition to the microscopical demonstrations, lantern demonstrations will also be given.

Embryology under this head will present the salient features of the anatomy and physiology of the fecundated ovule up to the time of birth.

Text-book.—Bohm, Davidoff and Huber's Histology.

PHYSIOLOGY

ARTHUR A. EISENBERG, A.B., M.D.....Instructor

The course in Physiology consists of lectures, demonstrations and laboratory exercises. The lectures cover all the important facts and theories regarding bodily functions of the animal, and are illustrated by diagrams, models and prepared specimens.

In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of nerves and muscles, and on the special senses of animals.

Special emphasis is laid on the relation of normal physiological functions to the disturbances of function in disease and upon the physiological action of drugs.

It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with the succeeding course in Pathology, Therapeutics and General Veterinary Medicine.

Text-book.—Howell's Physiology, Smith's Veterinary Physiology.

GENERAL CHEMISTRY

First Year

CHARLES EDWARD MUNROE, Ph.D., LL.D.....Professor
OTIS DOW SWETT, S.M.....Assistant Professor

General Chemistry.—A series of illustrated lectures, accompanied by recitations and exercises on theoretical, inorganic, organic and technical Chemistry. The student is required to take notes on these lectures, which he must submit for examination.

Laboratory Practice.—A laboratory course for the study of the principles of chemistry which is designed to instruct students in the methods of conducting chemical experiments.

Text-book.—Holland's Medical Chemistry and Toxicology.

PHYSIOLOGICAL CHEMISTRY

Second Year

EDWIN HENRY INGERSOLL, S.B.....Instructor

This course will consist of lectures and laboratory instruction, and includes the study of water from a sanitary standpoint; the chemical examination of milk, the tissues and fluids of the body; the isolation of the digestive enzymes, and a study of their action in vitro.

MATERIA MEDICA AND THERAPEUTICS

DAVID EASTBURN BUCKINGHAM, V.M.D.....Professor
HARRY A. LOCHBOEHLER, D.V.M.....Instructor

First Year

(1) Lectures upon and demonstrations of drugs and their preparations and doses used in veterinary practice will be followed by recitations to assist in memorizing. (2) Practical exercises will be given in prescription writing, also a short course in Veterinary Pharmacology.

Third Year

(1) Systematic lectures upon the physiological action of drugs and their effects in disease, their therapeutic uses, and their methods of administration to animals. (2) Prescription writing, in which students are given hypothetical cases for which to prescribe. (3) The therapeutic application of various agencies not drugs.

Text-book.—Winslow's Veterinary Materia Medica and Therapeutics.

PRACTICE OF VETERINARY MEDICINE

JOHN POLLARD TURNER, V.M.D.....Professor

This subject is taught by a series of lectures, recitations, quizzes and clinics extending over a period of two years.

The student is personally drilled in all the various diseases and doctrines taught in a well regulated veterinary school.

Especial attention is given to practical work whereby the student can become proficient in the diagnosis and treatment of disease.

Visits are required to the three veterinary hospitals in connection with the University, and personal attention is given students in visits to various large stables in and adjacent to the city of Washington, where practical instruction is given the third and fourth year classes in physical diagnosis among horses, cows and hogs.

Equal attention is given diseases of cattle as of horses, whereby the student is properly fitted for either city or country practice.

Diseases of food-producing animals will be thoroughly explained.

Text-books.—Freidberger and Froehner's Pathology and Therapeutics of Domestic Animals; Hutyra and Marek's Special Pathology and Therapeutics of Domestic Animals; Malkmus' Clinical Diagnosis; Glass' translation of Muller's Diseases of the Dog.

VETERINARY SURGERY AND RESTRAINT

JOHN LOCKWOOD, D.V.S.....Professor

The instruction given in this course embraces systematic lectures upon the principles and practice of Veterinary Surgery.

The different surgical operations are illustrated in clinic and upon the cadaver, and the uses of all the important surgical instruments and appliances are demonstrated in the same manner. The use of anesthetics, the practice of dental surgery, and castration on all domestic animals will receive special attention.

Text-books.—Moeller's Operative Veterinary Surgery; Fleming's Operative Veterinary Surgery; Hobday's Canine and Feline Surgery; Williams, Principles and Practice of Veterinary Surgery; Pfeiffer and Williams' Surgical Operations; White's Restraint of Domestic Animals; Merillat's Surgery.

BACTERIOLOGY AND PATHOLOGY

JOHN BRADFORD BRIGGS, S.B., M.D.....	Professor
HENRY KNOX CRAIG, M.D.....	Instructor

Bacteriology.—This subject comprises laboratory instruction in the fundamental principles and methods of pure bacteriology. Thorough drilling is given in the preparation of culture media, in disinfection, sterilization, staining and the general methods of bacterial differentiation. Following this course, which is given daily during October, the further study of bacteria is taken up in connection with and as applied to pathology.

Pathology comprises the laboratory study of the general and special phenomena of inflammation, and a detailed study of the pathological processes found in the various diseases. The relation of bacterial and other microphytic life to disease processes and results is studied coincidentally and constitutes a course in applied bacteriology. In connection with the laboratory work a course of lectures and demonstrations is given upon immunity, serum therapy and protective inoculation.

Surgical Pathology.—A special course in the healing of wounds and injuries and in the pathology of surgical operations is given in the third and fourth years.

Clinical Microscopy.—Comprising the study of the various tissues, fluids, ejecta, and dejecta, with a view to diagnosis of diseased conditions, is given in the first part of the third year.

Text-book.—Delafield and Prudden's Pathology, Hiss and Zinsser's Text-book on Bacteriology.

SPECIAL PATHOLOGY, TREATMENT AND CONTROL OF INFECTIOUS DISEASES

G. M. POTTER, D.V.M.....	Instructor
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The lectures in this course will be given with reference to the etiology, pathogenesis, symptoms, diagnosis, treatment and prevention of the infectious diseases. Local and national regulations and measures governing the control and eradication of diseases, with particular reference to the work of the United States Government in the eradication of infectious diseases will be clearly explained.

Text-books.—Hutyra and Marck's Special Pathology and Therapeutics of Domestic Animals, Volume I, translated by Mohler, Eichhorn and Fisher; Moore's The Pathology of Infectious Diseases of Animals; James Laws's Veterinary Medicine, Volume IV, third revised edition.

BREEDS AND BREEDING AND JUDGING

WALTER B. JESSEE, S.B.....	Instructor
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The course covers the chief phases of live-stock work, including the judging, breeding and management of horses, cattle, sheep and swine.

It is introduced by discussions upon the origin of animal life, natural selections, the origin of breeds and the domestication of animals, as well as the principles of breeding, heredity, environment, selection, individual conformation and the history and development of breeds.

Students obtain practical experience in the judging of the various breeds and classes of animals, by visits to neighboring farms.

Text-books.—Plumb's Types and Breeds of Farm Animals; Goubaux and Barrier's Exterior of the Horse.

FEEDS AND FEEDING

RALPH J. CARR, B.Sc.....Assistant Professor

This course will cover the principles of animal nutrition, balanced rations, practical feeding and the economical production of beef, milk, mutton and pork.

Text-book.—Henry's Feeds and Feeding.

MILK HYGIENE AND DAIRY INSPECTION

CHAUNCEY M. GRUBB, D.V.M.....Instructor.

The course in Milk hygiene will be given by lectures and demonstrations throughout the second year. The students will be taught the theory of milk secretion, the composition and characteristics of milk, the various methods of testing, together with the chemistry and bacteriology of milk, abnormal forms of milk, and diseases transmissible through milk to bovines and human beings, with a study of the epidemics produced. Sanitary stabling and the sanitary handling of milk will be considered, showing the construction of various types of dairy barns and dairy houses, the manner of milking, care of the milk and the varieties and care of dairy utensils; also the study of sterilization and pasteurization.

Text-books.—Jensen's Milk Hygiene, translated by Pearson. Bulletin No. 56, Marine-Hospital Service, Milk and its Relation to the Public Health.

MEAT INSPECTION AND POST-MORTEM EXAMINATION

G. M. POTTER, D.V.M.....Instructor

FRANK ALMON HUGINS, D.V.M.....Instructor

The subject involves the control of food animals destined for slaughter; their ante-mortem and post-mortem inspection with reference to the diseases which affect the wholesomeness of the meat. Further, the preparation of meat-food products, the various methods of preservation of meat and the conditions to which the meat and meat products are

subject due to the different infections and contaminations. The application of the Regulations of the Department of Agriculture in connection with the judgment of carcasses, meats and meat-food products.

Practical demonstrations in meat inspection and judgment will be given at the local abattoirs.

Post-mortem examinations and demonstrations of morbid anatomy will be given, as opportunities arise, in the various hospital and ambulatory clinics in and about Washington, D. C. Special consideration will be given to discussion of gross pathological changes, procedure of technic, preparation of pathological specimens for museum purposes and methods of securing and forwarding material for diagnosis. Students will be required to write complete protocols of each case.

Text-book.—Mohler and Eichhorn's translation of Edelmann's Meat Hygiene, second revised edition.

ZOOLOGY AND PARASITOLOGY

MAURICE C. HALL, A.B., A.M. Assistant Professor

Zoology.—In this course a brief survey of the general principles of zoology is undertaken. The history of zoology, the classification of the animal kingdom, the structure of typical forms in the different Phyla and the distribution of animals on the face of the earth will be considered. The course is designed to familiarize the student with the main facts and theories of zoology.

Parasitology.—This course is designed to give the student a practical knowledge of animal parasites. The nature of parasitism, the classification of parasites and the structure and life histories of those parasites of importance from the standpoint of meat inspection and veterinary practice are considered. By the use of fresh and preserved materials the student is given a first-hand knowledge of the more important parasites. Due consideration is given to the diseases caused by animal parasites, their prophylaxis, treatment and eradication.

VETERINARY OBSTETRICS

CHAUNCEY M. GRUBB, D.V.M. Instructor

The course of instruction will consist of lectures on obstetrical anatomy, foetal development, presentations and the diseases incidental to the periods of gestation and parturition.

The lectures will be illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

Text-book.—Fleming, Dalrymple, Williams.

SHOEING AND BALANCING

FRANK ALMON HUGINS, D.V.M. Instructor

The course is intended to familiarize students with the principles of shoeing, the examination of the feet and proper use of special shoes for relief of defects or disease.

Text-book.—Lungwitz on Horseshoeing, Adams' translation.

DENTISTRY

CHAUNCEY M. GRUBB, D.V.M.....Instructor

The course in dentistry includes lectures on the development of the teeth of the domesticated animals, the determination of age, irregularities of the teeth, oral surgery and dental clinics.

Text-book.—Merillats' Animal Dentistry and Diseases of the Mouth.

BOTANY

HARRY H. FETTER, Ph.G.....Instructor

The course in botany embraces the general relation of plants, vegetative organs, their functions, reproductive organs and nutrition.

Ecological factors, diversity of plant life, evolution of sex, differentiation of tissues, and plant physiology will be fully considered.

PHARMACY

HARRY H. FETTER, Ph.G.....Instructor

Pharmacy includes the history and nomenclature of the U. S. Pharmacopoeia, metrology, metric system and common system of weights and measures. Principles employed in making various preparations, classification of official preparations, incompatibility.

Supplemented by laboratory work in which students are required to compound formulae of ointments, lotions, draughts and various preparations, official and extemporaneous.

MILITARY PRACTICE

J. R. HAYNES, D.V.M.,

Clinical Instructor in Veterinary Military Practice

This course consists of lectures and demonstrations of purely military veterinary subjects, and is given at Fort Myer, Va., the cavalry and artillery post near Washington, D. C.

The subjects of saddling, biting and draft, together with the study of the proper conformation of animals used for military purposes, are included in this set of lectures.

The control of epizootics in military life is also given special consideration.

VETERINARY JURISPRUDENCE

WILLIAM W. BRIDE, A.M., LL.B.....Lecturer

A series of lectures upon the Law of Animals, including suggestions relating to the conduct of veterinarians as experts in the trial of cases involving the above law.

SPECIAL LECTURES

In addition to the foregoing courses of lectures, a number of government experts have been engaged to give lectures on subjects of special interest to the veterinarian.

These men are specialists in their lines of scientific research, and this is the only school giving such a course.

EXAMINATIONS AND DEGREE

Examinations are held at the end of the course in each subject. Students failing in examinations will be permitted to be re-examined at the next regular examination period. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Dean. In order to avail themselves of the privilege of re-examination, students must file their written applications with the Dean not later than fifteen days before the date set for the examinations.

Proficiency is marked upon a scale of 100. A grade of 70 is required to pass an examination. Students who fail to appear at the regular examination period will be charged a fee of \$3 for a special examination in each subject.

If a satisfactory examination is passed, the student receives the Degree of Doctor of Veterinary Medicine (D.V.M.)

PRIZES

1. Gold medal for student attaining highest average for whole course.
2. Prize for best work in operative surgery for senior student.
3. Prize for best anatomical specimen prepared by a Sophomore student.
4. Prize for best anatomical specimen prepared by a Freshman student.

In addition to the foregoing, students attaining a general average of 90 per cent or over for the entire course will be graduated "With Distinction," the same to be inscribed upon their diploma.

THE VETERINARY LIBRARY

This library is located in the Administration Building of the College of Veterinary Medicine, and is open from 8 a.m. to 10 p.m.

It contains, in addition to volumes on veterinary medical subjects, the current veterinary journals.

Provision is made in the annual library fee charged every student to add to it as published, the important new works on veterinary medicine.

OTHER LIBRARIES

Washington contains the Library of the Surgeon-General's Office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the government, is open to the public between the hours of 9 a.m. and 4.30 p.m. There is also the Library of Congress and the many excellent libraries of the various other government offices, in addition to the University Medical Library.

FEES AND CONTINGENT EXPENSES

1. Matriculation fee (payable only on first entry into the University)	\$5
2. Library fee per annum.....	2
3. Tuition fee per annum.....	100
4. Fee for graduation.....	10

A deposit of \$5 per annum is required of every student to cover loss, breakage or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter-session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar, and will be received only at the end of a quarter-session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological and Clinical	
Microscopy Laboratory use.....	6

PAYMENT OF FEES

All fees are to be paid to the clerk. Tuition fees are payable quarterly, in advance. Matriculation, library and laboratory fees are payable in full, in advance.

STUDENT EMPLOYMENT

The College of Veterinary Medicine will aid students, especially those coming from a distance, to obtain suitable employment as a means of defraying a part or all of their expenses while in pursuit of their college course. Opportunities for such employment in Washington are exceptionally good. The many Departments of Government, the Library of Congress, Congressmen's secretaryships, law offices, contractors' and

architects' offices, journalism, stenography, etc., offer a large number of positions of the most diverse kinds. While the College must not be understood as in any sense engaging to find employment for prospective students, in a great many cases important assistance can be rendered duly qualified applicants, if the fact of their desire to obtain employment is known. Applicants are particularly cautioned against coming to the University, intending to depend upon outside employment for support without being provided with funds sufficient to meet the expenses of at least the first half-year. Communications should be addressed to

THE DEAN,
College of Veterinary Medicine,
The George Washington University,
2113-2115 Fourteenth St. N.W., Washington, D.C.

BOARD AND ROOMS

A register of approved boarding-houses is kept by the clerk. Accommodations cost from \$25 to \$40 a month.

For further information apply to David E. Buckingham, Dean, The George Washington University, College of Veterinary Medicine, Nos. 2113-2115 Fourteenth Street N. W., Washington, D. C.

PART IV

STUDENTS IN THE UNIVERSITY
DEGREES CONFERRED, MISCELLANEA

STUDENTS REGISTERED IN THE UNIVERSITY 1913-1914

(Names of students who have withdrawn or graduated are indicated by stars; those who have entered since February 1, 1914, by daggers.)

DEPARTMENT OF ARTS AND SCIENCES

SCHOOL OF GRADUATE STUDIES

IN ATTENDANCE

- Bearce, Ira Mellen; Maine Business High School
S.B., 1904, University of Maine. *Topic*—Chemistry.
- Boyle, William; Massachusetts..... 1369 East Capitol Street
S.B., 1909, Maryland Agricultural College. *Topic*—Chemistry.
- *Coopersmith, Samuel; Nebraska..... 1501 11th Street
A.B., 1910, University of North Carolina; A.M., 1912, University
of Nebraska. *Topics*—Chemistry, Biochemistry.
- †Reiskin, David; Russia..... 2010 17th Street
C.M.Eng., 1913, Ecole de Mines et Faculté Polytechnique des
Hainault a Mons. *Topic*—Chemistry.
- Starbecker, Moses; New York..... 1104 5th Street
S.B., 1910, College of the City of New York. *Topic*—Chemistry.
- Wagner, Elsie Marian; New York..... 1007 13th Street
Ph.B., 1906, Syracuse University. *Topic*—Bacteriology.

DOCTOR OF CIVIL LAW

- Miller, Clarence Alphonso; Mexico, American Consulate, Tampico, Mexico
LL.B., 1899, Kansas City School of Law; LL. M., 1905, M. Dip.
1906, George Washington University. State Department.

CIVIL ENGINEER

- Ball, William Curtis Cooley; Maryland,
328 East 58th Street, New York City
B.S. in C.E., 1912, George Washington University.
- Dutton, Donald Langley; District of Columbia... 1721 Kilbourne Place
B.S. in C.E., 1913, George Washington University.
- Dwyer, John Rochford; District of Columbia..... 628 F Street S.W.
B.S. in C.E., 1913, George Washington University.
- *Hodgkins, Howard Wilkinson; District of Columbia..... The Octavia
B.S. in C.E., 1913, George Washington University.
- Kirk, Theodore Thomas; Kentucky..... 2152 F Street
B.S. in C.E., 1913, George Washington University.
- Slarrow, Malcolm Gordon; District of Columbia..... 1308 13th Street
B.S. in C.E., 1913, George Washington University.

ELECTRICAL ENGINEER

- McCalip, Curtis Edgar; Maryland, 803 E. Preston Street, Baltimore, Md.
 B.S. in E.E., 1912, George Washington University.
 Safford, Howard Palmer; District of Columbia, 1933 Park Road
 B.S. in E.E., 1912, George Washington University.

MECHANICAL ENGINEER

- Snelling, Henry Hornor; Virginia, 3522 10th Street
 S.B. in M.E., 1913, George Washington University.

MASTER OF SCIENCE

- Bradley, Willis Winter, Jr.; Washington, 1807 California Street
 Graduate, 1906, United States Naval Academy. *Topics*—Major,
 Chemistry; Minors, Mathematics, Physics.
 *Cleaves, Florena; Kansas, The Victoria
 A.B., 1910, Southwestern College. *Topics*—Major, Zoology;
 Minors, Botany, Bacteriology.
 Craighead, Frank Cooper; Pennsylvania, 926 B Street S.W.
Topics—Major, Zoology; Minors, Zoology, Chemistry.
 Crawford, James Chamberlain; Nebraska, U.S. National Museum
Topics—Major, Zoology; Minors, Zoology, Botany.
 Dennis, Showell Coulhourer; Maryland,
 316 N. Columbus Street, Alexandria, Va.
 S.B. in Chemistry, 1912, Maryland Agricultural College. *Topics*
 —Major, Bacteriology; Minors, Chemistry, Biochemistry.
 Dodge, Cleon Orestes, New Hampshire,
 Bureau of Chemistry, Department of Agriculture
 S.B., 1915, New Hampshire College. *Topics*—Major, Chemis-
 try; Minors, Bacteriology, Microscopy.
 *Finkelstein, Reuben; District of Columbia, 1501 11th Street
 A.B. and Teacher's Diploma, 1911, George Washington Univer-
 sity. *Topics*—Major, Education; Minors, Physics, Economics.
 Gardiner, Robert Franklin; Rhode Island, 1223 Irving Street
 S.B., 1903, Rhode Island State College. *Topics*—Major, Chem-
 istry; Minors, Bacteriology, Geology.
 *Ginsburg, Samuel; District of Columbia, 915 20th Street
 S.B., 1912, College of the City of New York. *Topics*—Major,
 Biochemistry; Minors, Chemistry, Bacteriology.
 Graham, James Jesse Thomas; Maryland, Hyattsville, Md.
 S.B., 1906, Maryland Agricultural College. *Topics*—Major,
 Chemistry; Minors, Bacteriology, Chemistry.
 †Hasenfratz, William; New York, 1501 11th Street
 S.B., 1913, College of the City of New York. *Topics*—Major,
 Bacteriology; Minors, Chemistry, Biochemistry.
 *Hustvedt, Olaf Mandt; Iowa, Proving Ground, Indian Head, Md.
 Graduate, 1909, United States Naval Academy. *Topics*—Major,
 Chemistry; Minors, Mathematics, Physics.

- *Kerner, Abram Nathaniel; New York.....915 20th Street
S.B., 1912, College of the City of New York. *Topics*—Major,
Biochemistry; Minors, Chemistry, Bacteriology.
- *McLeran, John David; District of Columbia.... Station H, Route 1
A.B., 1896, The Iuka Normal Institute; A.M., 1903, Southern
Normal University. *Topics*—Major, Chemistry; Minors, Eng-
lish, History.
- Miller, Carl Frederick; New York.....1737 Oregon Avenue
S.B., 1912, Syracuse University. *Topics*—Major, Chemistry;
Minors, Bacteriology, Microscopy.
- Miller, Harry McClure; Kentucky.....1440 W Street
Topics—Major, Chemistry; Minors, Bacteriology, Zoology.
- Moore, Milton Donaldson; South Carolina.. Department of Agriculture
A.B., 1913, George Washington University. *Topics*—Major,
Zoology; Minors, Zoology, Botany.
- North, Dexter; District of Columbia.....2852 Ontario Road
S.B., 1913, Hamilton College. *Topics*—Major, Chemistry; Mi-
nors, Mechanical Engineering, Electrical Engineering.
- Oberholser, Harry Church; District of Columbia...1444 Fairmont Street
Topics—Major, Zoology; Minors, Zoology, Botany.
- †Outwater, Kate Sorrell; Virginia.....620 F Street, S.W.
A.B., 1913, George Washington University. *Topics*—Major,
Zoology; Minors, German, Botany.
- *Peck, Caro Beth; Illinois.....702 20th Street
S.B., 1908, Northwestern University. *Topics*—Major, Physics;
Minors, Chemistry, Physics.
- †Radcliffe, Lewis; New York.....301 Tennessee Avenue, N.E.
A.B., 1905, Cornell University. *Topics*—Major, Zoology; Mi-
nors, Zoology, Bacteriology.
- Roundy, Paul Vere; New York.....U. S. Geological Survey
A.B., 1912, George Washington University. *Topics*—Major, Ge-
ology; Minors, Mineralogy, Zoology.
- *Sanford, Herbert Luther; New York.....Bureau of Entomology
S.B., 1910, Cornell University. *Topics*—Major, Zoology; Mi-
nors, Zoology, Microscopy.
- †Smith, Delos Hamilton; District of Columbia.....Southern Building
B.S. in Arch., 1906, George Washington University. *Topics*—
Major, History of Art; Minors, Architecture, Archaeology.
- *Valaer, Peter, Jr.; North Carolina.....Bureau of Internal Revenue
S.B., 1906, Agricultural and Mechanical College of North Caro-
lina. *Topics*—Major, Chemistry; Minors, Bacteriology, Micro-
scopy.
- *Webster, Hugh; District of Columbia.....Y. M. C. A.
S.B. in Agriculture, 1912, Iowa State University. *Topics*—
Major, Chemistry; Minors, Biochemistry, Bacteriology.

MASTER OF ARTS

- Ashley, Rebecca Sherman; Minnesota.....1100 M Street
Topics—Major, Archaeology; Minors, Archaeology, English.
- Brigham, Gertrude Richardson; Massachusetts...Smithsonian Institution
A.B., 1913, George Washington University. Topics—Major,
English, Minors; History, French.
- Burden, Katherine; District of Columbia.....1237 Crittenden Street
Topics—Major, English; Minors, Zoology, German.
- Carter, Francis Edward; Virginia. Episcopal High School, Alexandria, Va.
A.B., 1913, George Washington University. Topics—Major, His-
tory; Minors, History, Political Science.
- Clark, Edith Mary; New York.....Gunston Hall
L.L.A., 1899, St. Andrews University, Scotland. Topics—Major,
Archaeology; Minors, Archaeology, English.
- †Corson, Florence Virginia Morrison; Maryland.....2129 F Street
A.B. and Diploma of Education, 1914, George Washington Uni-
versity. Topics—Major, English; Minors, English, Education.
- Covell, David Ransom Covell; District of Columbia....3221 11th Street
A.B., 1910, George Washington University. Topics—Major, So-
ciology; Minors, Philosophy, Greek.
- Garber, John Absalom; District of Columbia.....508 B Street, S. E.
A.B., 1891, Bridgewater College. Topics—Major, Education;
Minors, Psychology, Philosophy.
- Heller, Mary Elizabeth; Maryland.....3427 Holmead Place
S.B., 1908, Columbia University. Topics—Major, German; Mi-
nors, Romance Languages, Sociology.
- *Huff, Daisie Ione. Illinois.....2152 F Street
A.B., 1913, George Washington University. Topics—Major Ed-
ucation; Minors, Psychology, Philosophy.
- *Judd, Edwin Edgar; District of Columbia.....15 Todd Place, N.E.
A.B., 1913, George Washington University. Topics—Major,
Economics; Minors, Political Science, Sociology.
- †Knudtson, Clarence Arthur, District of Columbia.653 Morton Place, N.E.
A.B., 1913, George Washington University. Topics—Major,
English; Minors, Philosophy, Sociology.
- Mallory, William Johnston; District of Columbia, 1720 Connecticut Ave.
M.D., 1903, George Washington University. Topics—Major,
Physiology and Pharmacology; Minors, Pathology, Chemistry.
- Marshall, William Clarkson, Jr.; Virginia...Theological Seminary, Va.
A.B., 1907, University of Virginia. Topics—Major, Philosophy;
Minors, English, Zoology.
- Ossire, Cora Amelia; District of Columbia.....2729 Ontario Road
A.B., 1913, George Washington University. Topics—Major, Ed-
ucation; Minors, English, French.

Penagos y R. Arcesio; Columbia.....1337 L Street
Ph.B., 1906; LL.D., 1910, Cauca University, Columbia. *Topics*
Major, Political Science; Minors, Economics, International Law
and Diplomacy.

Roper, Margaret May; District of Columbia,
816 Massachusetts Ave., N.E.

A.B., 1912, Randolph Macon College. *Topics*—Major, English;
Minors, Sociology, Economics.

Schwartz, Claus Johann; Germany.....3526 11th Street
A.B., 1908, George Washington University. *Topics*—Major,
German; Minors; French, Education.

Scott, Mabel Lavinia; District of Columbia.....1455 Girard Street
A.B., 1907, George Washington University. *Topics*—Major,
English; Minors, German, History.

Shen, Tsao-Chen; China.....2006 Columbia Road
A.B., 1909, St. John's College, Shanghai. *Topics*—Major, Inter-
national Law and Diplomacy; Minors' Political Science, Soci-
ology.

Stout, Joseph Duerson; District of Columbia.....233 8th Street, N.E.
A.B., 1910; M.D., 1913, George Washington University. *Topics*
Major, Physiology and Pharmacology; Minors, Physiology and
Pharmacology, Pathology.

Underwood, Harriet; District of Columbia.....2551 37th Street
A.B., 1913, George Washington University. *Topics*—Major,
Education; Minors, History, English.

von Zielinski, Carl Maria Johann; Germany.....1706 F Street
A.B., 1913, George Washington University. *Topics*—Major, Eco-
nomics; Minors, History, International Law and Diplomacy.

White, Mary Josephine; New York..42 Riverside Drive, New York City
A.B., 1913, George Washington University. *Topics*—Major,
English; Minors, German, History.

DOCTOR OF PHILOSOPHY

Alden, Levi Russell; District of Columbia.....Union Trust Bldg.
A.B., 1903, A.M., 1904, LL.B., 1906, George Washington Univer-
sity. *Topics*—Major, History; Minors, Law, History.

Bevard, Katherine Harper, Pennsylvania.....1423 R Street
A.B., 1911, A.M., 1913, George Washington University. *Topics*
—Major, Education; Minors, Education, English.

Bookstaber, Philip David; New York.....12 Grant Place
S.B., 1911, College of the City of New York; A.M., 1912, Colum-
bia University. *Topics*—Major, Economics; Minors, Sociology,
Political Science.

†Bowers, Andrew Jackson, Jr.; South Carolina.....1716 G Street
A.B., 1908; A.M., 1913, Newberry College. *Topics*—Major, Po-
litical Science; Minors' International Law and Diplomacy,
History.

- Catella, Samuel Spinoza; Holland.....628 East Capitol Street
Topics—Major, Political Science; Minors, Economics, Education.
- Churchill, George Morton; Massachusetts.....The Newton, 520 E Street
 A.B., 1896, Boston University; A.M., 1909, George Washington
 University. *Topics*—Major, History; Minors, Economics, His-
 tory.
- Custis, Horace Hatch; District of Columbia.....The Iroquois
 A.B., 1906, Johns Hopkins University; A.M., 1908, George Wash-
 ington University. *Topics*—Major, Chemistry; Minors, Chem-
 istry, Bacteriology.
- Doyle, Aida Mary; Pennsylvania.....1359 Park Road
 S.B., 1898, S.M., 1899, George Washington University. *Topics*—
 Major, Chemistry; Minors, Chemistry, Microscopy.
- Ewing, Clare Olin; Ohio.....1736 G Street
 S.B., 1912, S.M., 1913, Ohio State University. *Topics*—Major,
 Chemistry; Minors, Bacteriology, Biochemistry.
- *Finkelstein, Reuben; New York.....1501 11th Street
 A.B., 1911, George Washington University. *Topics*—Major, Ed-
 ucation, Minors, Economics, Mathematics.
- Hall, Maurice Crowther; District of Columbia,
 1815 Hamlin Street, N. E.
 S.B., 1905, Colorado College; A. M., 1906, University of Nebras-
 ka. *Topics*—Major, Zoology; Minors, Zoology, Pathology.
- *Hood, Joseph Douglas; Illinois.....2009 Kalorama Road
 A.B., 1910, University of Illinois. *Topics*—Major, Zoology;
 Minors, Zoology, Botany.
- Huddle, John Thomas, District of Columbia.....738 11th Street
 A.B., 1891; A.M., 1896, Roanoke College. *Topics*—Major, Eng-
 lish; Minors, Psychology, Philosophy.
- Ice, Harry Lawrence; Maryland.....Mt. Rainier, Md.
 A.B., 1912; A.M., 1912, Bethany College. *Topics*—Major, Phi-
 losophy; Minors, English, Sociology.
- *Jackson, Hartley Harrad Thompson; District of Columbia,
 1326 Euclid Street
 A.B., 1904, Milton College; A.M., 1909, University of Wisconsin.
Topics—Major, Zoology; Minors, Zoology, Psychology.
- *Kibler, Thomas Latimer; District of Columbia.....1715 35th Street
 A.B., 1904, Randolph Macon College; A.M., 1908, George Wash-
 ington University. *Topics*—Major, Economics; Minors, His-
 tory, Sociology.
- †Lowe, Edith Blinston; District of Columbia.....2622 Woodley Place
 A.B., 1911; A.M., 1912, George Washington University. *Topics*
 —Major, English; Minors, English, History.
- Morse, Elisha Wilson; District of Columbia.....1723 Willard Street
 B.A.S., 1897, Harvard University. *Topics*—Major, Zoology;
 Minors, History, Economics.

- Palkin, Samuel; District of Columbia.....1215 I Street
Ph.B., 1910, Yale University; S.M., 1913, George Washington
University. *Topics*—Major, Chemistry; Minors, Bacteriology,
Microscopy.
- Pierce, Ulysses Grant Baker; District of Columbia....1616 Riggs Place
B.D., 1890, Hilladale College; A.B., 1909; D.D., 1909, George
Washington University. *Topics*—Major, Philosophy; Minors,
Aesthetics, English.
- Roark, Ruric Creegan; Kentucky.....1668 Park Road
A.B., 1907, University of Cincinnati; A.M., 1908, University of
Illinois. *Topics*—Major, Chemistry; Minors, Bacteriology,
Pharmacology.
- Schwartz, Claus Johann; Germany.....3526 11th Street
A.B., 1908, George Washington University. *Topics*—Major,
German; Minors, French, Education.
- *Sniffin, William Webb; District of Columbia.....2625 Garfield Street
A.B., 1906; A.M., 1907, George Washington University. *Topics*
—Major, French; Minors, Spanish, Philosophy.
- Stout, Joseph Duerson; District of Columbia.....233 Sth Street, N.E.
A.B., 1910; M.D., 1913, George Washington University. *Topics*
—Major, Physiology and Pharmacology; Minors, Physiology
and Pharmacology, Pathology.
- Swett, Otis Dow; Maryland.....1325 H Street
LL.B., 1891; LL.M., 1892; S.B., 1904; S.M., 1909, George Wash-
ington University. *Topics*—Major, Chemistry; Minors, Chem-
istry, Bacteriology.
- Ulke, Titus; District of Columbia.....U. S. Patent Office
Met. E., 1889, Royal Academy of Mines; LL.B., 1909; S.B., 1909;
M.P.L., 1909, George Washington University. *Topics*—Major,
Zoology; Minors, Zoology, Botany.
- Wentz, Abdel Ross; Pennsylvania.....809 L Street
A.B., 1904; A.M., 1907, Pennsylvania State College; B.D., 1907,
Gettysburg Theological Seminary. *Topics*—Major, History;
Minors, History, German.

THE COLLEGES

The following list includes all undergraduate students. The registra-
tion is indicated by the abbreviations: C. C., Columbian College;
Eng., for College of Engineering and Mechanic Arts; T. C., for Teachers
College. The letters c., e., m., and a., after the abbreviation Eng., in-
dicate that the student is a candidate for the bachelor's degree in Civil,
Electrical or Mechanical Engineering, or in Architecture; the absence
of these letters indicates a special student.

- Abbott, Ruth Estelle, T. C.; District of Columbia....1308 Spring Road
Abererombie, Clare, C. C.; Alabama.....Falkstone Courts

- Abramson, Nathan, Eng., c; District of Columbia...100 N. J. Ave. N.W.
 *Adams, Albert Chester, C. C.; Maryland.....College Park, Md.
 Agnew, Ethna, C. C.; District of Columbia, Apt. 43, The Lambert
 Aitcheson, Mary Caroline, C. C.; Virginia,
 311 S. Lee Street, Alexandria, Va.
 *Akers, Edwin, Eng.; District of Columbia...1016 Massachusetts Avenue
 Albert, Francis Lee, C. C.; Iowa.....Y. M. C. A.
 Albes, Julia Fredericka, C. C.; Alabama.....1737 Corcoran Street
 Aldridge, Isabel Miller, T. C.; New York.....819 Allison Street
 Allwine, Elsie May, T. C.; District of Columbia,
 513 12th Street, N. E.
 Almon, Harry Foster, Eng.; Montana.....719 11th Street, N.W.
 Anders, Walter Lesisne, C. C.; Texas.....708 19th Street
 Anderson, James Francis, Eng.; New York.....402 M Street N.W.
 *Anderson, Marion T., C. C.; District of Columbia,
 1360 Fairmont Street
 Appleby, Wilmer Conrad, C. C.; Indiana.....676 4th Street N.E.
 Arledge, Caroline Mascott, C. C.; District of Columbia,
 2628 Garfield Street, N.W.
 Arnold, Virginia Josephine, T. C.; District of Columbia,
 1824 Monroe Street
 *Austin, Fred, C. C.; District of Columbia...731 Rock Creek Ch. Rd.
 Ayler, Ruth Leah, C. C.; District of Columbia...244 8th Street, N.E.
 Bader, Joseph P., C. C.; New York.....1501 11th Street, N.W.
 Bailey, Bertrand W., C. C.; Massachusetts.....2138 G Street, N.W.
 *Baker, Maude, C. C.; New York.....1217 East Capitol Street
 Baker, William E., C. C.; District of Columbia.....433 Y. M. C. A.
 Ball, Homer W., Eng.; District of Columbia.....Cherrydale, Va.
 Ballard, Emory Lester, C. C.; District of Columbia...107 Bates Street
 Balls, Arnold Kent, C. C.; Pennsylvania.....1736 G Street N.W.
 B.S. in Chem., University of Pennsylvania, 1912.
 Barber, Chas. W., Eng., c; District of Columbia...3428 Brown Street
 Barnes, Marjorie, C. C.; Maryland.....143 11th Street N.E.
 Barr, Eugene Osmon, C. C.; District of Columbia...105 5th Street N.E.
 Barse, George Percy, C. C.; Maryland.....1363 B Street S.E.
 Bashford, Margaret Josepha, T. C.; Virginia,
 R.F.D. No. 2, Alexandria, Va.
 Baston, George Henry, C. C.; Maine.....Y. M. C. A.
 *Bates, Lloyd Graham, Eng., e; Pennsylvania.....1741 G Street
 Batt, Joseph Harper, C. C.; Delaware.....1717 S Street N.W.
 Baughman, Walter, F., C. C.; Pennsylvania.....1736 G Street
 B.S. in Chem., University of Pennsylvania, 1912.
 Bayly, Margaret, T. C.; District of Columbia...1333 11th Street N.W.
 *Beacom, Harold F., C. C.; Iowa.....1914 16th Street
 Beckett, Leighton D., C. C.; Iowa.....The St. Regis
 Bell, Grace E., C. C.; District of Columbia.....2548 17th Street

- Bell, Margaret Wilson, C. C.; District of Columbia.....254S 17th Street
 Beller, Frederick Franklin, C. C.; District of Columbia,
 235 1st Street N.E.
 Beller, Elizabeth Caroline, T. C.; District of Columbia,
 235 1st Street N.E.
 Beller, Sadie White, T. C.; District of Columbia...235 1st Street N.E.
 Beneman, Harry G., C. C.; Maryland.....904 Westminster Street
 Bennett, Harry, Eng.; Pennsylvania.....610 5th Street N.E.
 *Bennett, J. Marsden, C. C.; District of Columbia,
 741 Varnum Street N.W.
 Benton, Ralph Webster, C. C.; District of Columbia.....462 O Street
 Berman, Morris I., C. C.; Minnesota.....415 M Street N.W.
 Best, Joanna Elizabeth, C. C.; District of Columbia,
 1133 Euclid Street N.W.
 Bixler, John Shively, C. C.; District of Columbia,
 821 Massachusetts Ave. N.E.
 Blanchard, Mabel Elizabeth, C. C.; District of Columbia,
 806 Massachusetts Ave. N.E.
 Boesch, Harry Luther, Eng.; District of Columbia..616 E Street N.E.
 Bontz, Mary Ellen, T. C.; Virginia,
 422 N. Alfred Street, Alexandria, Va.
 Boone, Pearl Lee, C. C.; Maryland.....Hyattsville, Md.
 *Bopp, William Elmer, Eng., e.; District of Columbia.1509 E. Street S.E.
 Boteler, May H., C. C.; District of Columbia,
 Michigan Avenue, Brookland, D. C.
 Bothwell, Harry Briggs, Eng.; Pennsylvania.....110 F Street S.E.
 Bowen, Seth Thomas, Eng., e.; Ohio.....1736 G Street
 *Bowers, A. J., Jr., C. C.; District of Columbia.....1716 G Street
 A.B., 1908; A.M., 1913, Newberry College.
 *Boyle, Albert H., C. C.; Montana.....1602 U Street N.W.
 Boyle, John, Jr., C. C.; District of Columbia...1369 East Capitol Street
 B.S., Massachusetts Institute of Technology.
 Brackett, James H., C. C.; District of Columbia..1464 Girard Street
 Braddock, Roberta Iola, C. C.; District of Columbia..2620 13th Street
 Bradley, Everett Lamont, C. C.; District of Columbia..40 S Street N.W.
 Bradley, Maurice Byron, Eng., m.; District of Columbia,
 40 S Street N.W.
 *Brady, J. Camden, Eng.; West Virginia.....1826 California Street
 Brailowsky, Julius, Eng., e.; District of Columbia..1457 Corcoran Street
 Brand, Albert Arnold, Eng. e.; Indiana.....621 19th Street
 Brattain, Paul Henry, C. C.; Indiana.....420 10th Street N.E.
 Breneman, Claude R., C. C.; District of Columbia,
 935 New York Avenue
 Brewer, Elin Gilmore, C. C.; District of Columbia,
 608 Massachusetts Avenue N.W.
 Brez, Yetta, C. C.; District of Columbia.....908 New York Avenue

- Brockwell, John Francisco, C. C.; North Carolina,
1259 Morse Street N.E.
- Brookes, William B. N., Eng., m.; District of Columbia,
1525 Corcoran Street
- Broomell, Arthur W., C. C.; Pennsylvania.....Y. M. C. A.
A.B., 1906, Swarthmore College.
- Brown, Alvin McCreary, C. C.; Maryland.....Berwyn, Md.
- Brown, Ammi, C. C.; Colorado.....928 New York Avenue
- *Brown, Clara Gilpin Chappell, T. C.; District of Columbia,
3901 Grant Road
- Brown, Ethel, T. C.; District of Columbia.....Kenilworth, D. C.
- Brown, Mary, T. C.; District of Columbia.....2464 Ontario Road
- Brown, Norman Cuthbert, C. C.; District of Columbia.....42 S Street
- Brown, Wager Swayne, Eng.; District of Columbia,
1475 Columbia Road
- *Brown, Wilmarth, Eng.; District of Columbia,
3145 Mt. Pleasant Street
- Browne, Ethel, T. C.; District of Columbia.....Kenilworth, D. C.
- Browne, Gertrude Veronica, T. C.; District of Columbia,
1344 Girard Street
- Browne, Margaret Marian, C. C.; District of Columbia,
1344 Girard Street N.W.
- Browning, Martha Ringgold, C. C.; District of Columbia,
707 East Capitol Street
- Brunner, Frederick J., C. C.; District of Columbia,
1226 Lawrence Street N.E.
- *Bryson, Laura Elizabeth, T. C.; District of Columbia,
714 12th Street N.E.
- Buchanan, James Allison, Eng., e.; District of Columbia...901 M Street
- Bullough, Joseph Harold, Eng., m.; District of Columbia,
122 Tennessee Ave.
- Burch, James W., Eng.; District of Columbia.....1735 Willard Street
- Burden, Katherine, C. C.; District of Columbia...1237 Crittenden Street
- Burgess, James Irving, Eng.; District of Columbia...403 11th Street S.E.
- Burke, Ellen Teresa, C. C.; District of Columbia,
531 Jefferson Street, Brightwood Park, D. C.
- Burleson, Adele Sidney, C. C.; Texas.....1901 F Street
- Burleson, Lucy Hyle, C. C.; Texas.....1901 F Street
- *Burleson, Jennie May, C. C.; District of Columbia...Fort Myer, Va.
- Burt, Edwin Caleb, C. C.; District of Columbia...1102 Vermont Avenue
- *Burton, Lawrence Elmer, Eng., e.; Indiana.....1221 O Street
- Byrne, Joanna Kenealy, (Mrs.), C. C.; District of Columbia,
3511 Center Street N.W.
- Caemmerer, Johannes Paul, C. C.; Wisconsin.....925 L Street
- *Caffrey Charles Rogers, Eng.; District of Columbia,
5801 Colorado Avenue, Brightwood, D. C.

- Callihan, Loyzello J., C. C.; Arkansas,
118 Willow Avenue, Takoma Park, D. C.
- Calloway, Grade, C. C.; Texas.....206 Maryland Avenue N.E.
- Cam, Helen Elizabeth, T. C.; District of Columbia...58 T Street N.W.
- *Camp, Guy W. A., C. C.; Maryland.....1226 H Street N.W.
- Campbell, Arthur B., Eng., e.; District of Columbia,
24 Rhode Island Avenue N.E.
- *Campbell, Max D., Eng., e.; Maryland.....1446 Irving Street
- Campfield, Allan Bailey, Eng., m.; District of Columbia,
Clark Place, Conduit Road
- Capell, Isabel Rhoda, T. C.; District of Columbia...471 H Street N.W.
A.B., 1907, George Washington University.
- Capper, Harry Walter, Eng., e.; Virginia.....219 8th Street S.E.
- Carden, Sam Poe, C. C.; Texas.....1229 O Street N.W.
- Carlson, Vivian, C. C.; New York.....1134 12th Street N.W.
- Carpenter, Clarence Forrest, Eng., a.; Indiana . Room 601, Y. M. C. A.
- *Carpenter, Essex P., C. C.; District of Columbia...1921 G Street N.W.
- Carpenter, Lillian Evans, T. C.; District of Columbia,
205 D Street N.E.
- Carr, Kate Edna, T. C.; District of Columbia,
1833 North Capitol Street
- Cathcart, Paul Hamilton, C. C.; Virginia.....Ballston, Va.
- *Chalmers, Niles, C. C.; Texas.....620 5th Street
- †Chamberlain, Ernest Rogers, C. C.; Kansas.....2004 F Street
- Chapin, Olive R., T. C.; Illinois.....1441 Clifton Street
- Chapman, Thomas Hutchinson, C. C.; District of Columbia,
129 F Street N.W.
- Chaves, Katherine Isabel, C. C.; New Mexico.....1435 Clifton Street
- Cheney, Edith, C. C.; District of Columbia.....816 Taylor Street
- Cheney, Frank Shaw, Eng., e.; District of Columbia... 816 Taylor Street
- Cherry, Helen Elizabeth, C. C.; District of Columbia,
936 O Street N.W.
- Cherry, Paul Norman, C. C.; District of Columbia,
1363 Maryland Avenue N.E.
- *Chesborough, Mary Denison, T. C.; Wisconsin.....Forest Glen, Md.
- Clark, Clyde F., C. C.; Iowa.....The Leumass, 12 and Q Streets
- Cleaves, Florena, C. C.; Kansas.....The Victoria
- *Close, Loraine, C. C.; Ohio.....2030 G Street
- Clements, Mildred Margaretta, T. C.; District of Columbia,
813 East Capitol Street
- Cochrane, John Edward Walker, Eng., e.; District of Columbia,
1414 K Street
- Coe, Mayne R., C. C.; District of Columbia...2947 Mills Avenue N.E.
- †Conhoge, William T. Eng., a; California.....311 M Street
- *Connor, Daniel Allman, C. C.; District of Columbia,
130 D Street S.E.

- Connor, Mary, C. C.; District of Columbia.....130 D Street S.E.
 Cook, Marie Albertina, C. C.; District of Columbia....930 P Street N.W.
 Copeland, Leland Stanford, C. C.; Missouri.....1114 Euclid Street
 Corbett, Katherine C., C. C.; District of Columbia,
 1411 Harvard Street N.W.
 Cornell, Herbert Watson, C. C.; Colorado.....1738 F Street
 *Cornwell, Annie B., C. C.; District of Columbia,
 711 Massachusetts Avenue N.E.
 Coronado, Henry, C. C.; Columbia.....3411 14th Street
 Corson, Edna Lois, C. C.; Maryland.....1154 17th Street
 *Corson, Florence V. M., T. C.; Maryland.....Silver Spring, Md.
 Cost, Roscoe Wyand, Eng.; District of Columbia.....916 15th Street
 *Craighill, Susan Robins, T. C.; District of Columbia,
 3062 Q Street N.W.
 *Crain, Newell B., C. C.; Texas326 D Street N.E.
 Craton, Anna Washington, C. C.; North Carolina...1410 Girard Street
 Craton, Richard Washington, Jr., Eng.; North Carolina,
 1410 Girard Street
 *Crook, William Carlyle, C. C.; Maryland.....Laurel, Md.
 Crown, James Edmund, Eng., m.; District of Columbia,
 727 5th Street N.E.
 Cruickshanks, Benjamin C., Eng., m.; District of Columbia,
 Douglas and 24th Streets
 *Cubberly, Warner I., Eng.; District of Columbia...911 M Street N.W.
 *Cullum, Clarence S., C. C.; District of Columbia...109 Bates Street N.W.
 Cummingford, Asa Norman, Eng.; Michigan.....1223 D Street S.E.
 Cunningham, Julian Wallace, C. C.; District of Columbia,
 1636 Monroe Street
 †Cushman, Rebecca, C. C.; District of Columbia,
 1445 Massachusetts Avenue
 Daggett, Edith Gertrude, T. C.; District of Columbia...16 Iowa Circle
 Daidy, George Augustine, Eng., a.; District of Columbia,
 1316 L Street N.W.
 Dans, Jose P., Eng., e.; Philippine Islands.....2025 G Street
 Dashiell, Emily Rose, T. C.; Maryland.....Library of Congress
 Davis, Joe N., C. C.; Texas.....708 19th Street
 Davis, Lee Sherman, C. C.; New York.....Takoma Park Seminary
 Davison, Ruth Lowe, T. C.; District of Columbia...1334 Girard Street
 Degenhardt, George Albert, Eng., e.; District of Columbia,
 1007 24th Street
 Degnan, George A., Eng., m.; Pennsylvania.....450 M Street
 DeGrange, Mark, C. C.; District of Columbia.....25 U Street N.E.
 Delaney, James Leroy, Eng., m.; District of Columbia,
 600 Park Road N.W.
 *Dellwig, Flora Marie, C. C.; District of Columbia,
 175 Massachusetts Avenue, N.E.

- DeLong, Forrest Allen, Eng.; District of Columbia, 607 8th Street N.E.
- Denison, Harriet Alberta, C. C.; District of Columbia, 3117 35th Street, Cleveland Park
- Dent, Mary Catherine, T. C.; District of Columbia, 3009 D Street N.W.
- Dessez, Charlotte Caroline, C. C.; District of Columbia, 1370 Columbia Road
- DeVaughan, William Aloysius, Eng.; Virginia, 315 S. Pitt Street, Alexandria, Va.
- Diaz, M. Humbert, C. C.; Florida.....care Kalston and Siddons
- Diesman, Justin P., C. C.; Kentucky.....1113 9th Street
- *Disney, Edward Irvin, Eng.; District of Columbia, 128 Tennessee Avenue N.E.
- Dixon, Willis, Eng.; Virginia.....U. S. S. Tallahassee
- Donnelly, Bernard Patrick, Eng.; District of Columbia, 223 E Street S.E.
- *Doran, Helen, C. C.; District of Columbia.....2712 27th Street.
- *Dorroh, J. O., T. C.; Alabama.....125 A Street N.E.
- Douglas, Elsie Young, C. C.; Florida.....The Sherman
- †Douglas, James Franklin, C. C.; District of Columbia, 516 East Capitol Street
- Dowell, Edgar F., Eng.; Virginia.....Y. M. C. A.
- Doyle, Roseoe Clifford, Eng.; District of Columbia, 517 6th Street N.W.
- Drake, Alice Hutchins, C. C.; District of Columbia, 2611 Adams Mill Road
- Dulac, Victor, C. C.; District of Columbia, 1414 Massachusetts Avenue N.W.
- Dulin, Cecilia Pinkney, T. C.; District of Columbia, 3 Grafton Street, Chevy Chase, Md.
- *Duvall, James, C. C.; District of Columbia.....2513 Wisconsin Avenue
- †Duvall, Russell L., C. C.; District of Columbia.....621 A Street N.E.
- Duvall, Walker M., Eng., e.; District of Columbia, 1831 M Street N.W.
- Earll, Donald Montgomery, C. C.; Maryland.....2536 14th Street
- Eastman, Annie H., C. C.; District of Columbia.....1305 17th Street
- *Eatherly, Walter S., Eng.; Tennessee.....1617 Swann Street
- A.B., 1912, George Washington University.
- Eddingfield, Ina Dean, T. C.; District of Columbia, 1440 Harvard Street
- Edwards, John Davis, U.S.N., Eng.; Virginia.....2017 H Street N.W.
- Egbert, Freda Dorothy, T. C.; District of Columbia...1739 1st Street
- Ehrman, Herbert Allan, Eng., m.; Maryland.....1328 Fairmont Street
- Eiker, Fillmore Wynkoop, Eng., c.; Maryland, 6312 Connecticut Avenue, Chevy Chase, Md.

- Eiker, Mathilde, C. C.; District of Columbia.....1006 Otis Place
 Eldridge, Hattie Dayton, T. C.; North Carolina.....2017 Park Road
 Elgin, Hugh Bassett, C. C.; Kentucky.....916 15th Street
 Eliason, Raymond Orlando, Eng.; District of Columbia,
 214 4th Street S.E.
 *Elkins, Leonard B., C. C.; District of Columbia,
 Mt. Vernon Apartment
 †Ellenbogen, Lewis Katzen, T. C.; New York.....431 M Street
 Elliott, Florian A., Eng.; Virginia.....1003 Woodward Bldg.
 Ellis, Edna Virginia, T. C.; District of Columbia...111 5th Street S.E.
 Ellison, Minnie D., C. C.; Virginia.....West Falls Church, Va.
 Elwood, William Adams, Eng., e.; New York.....627 7th Street N.E.
 Emig, Evelyn Martha, C. C.; District of Columbia.....1765 P Street
 Engel, Abraham, C. C.; New York.....511 K Street, N.E.
 English, Maude Franzoni, T. C.; District of Columbia,
 2014 15th Street
 Enlows, Ella M. Austin, C. C.; District of Columbia,
 1478 Columbia Road
 Erikson, Bernhard Edwin, C. C.; Illinois.....706 20th Street
 Espey, Emolyn Carpenter, T. C.; District of Columbia,
 122 11th Street N.E.
 †Ettenger, Edwin Lloyd, Eng.; District of Columbia,
 1507 Lamont Street
 Ettenger, Robert Lee, Jr., C. C.; District of Columbia,
 1507 Lamont Street N.W.
 *Evans, Florence E., C. C.; Ohio.....807 G Street N.E.
 Evans, Morgan William, C. C.; District of Columbia,
 225 B Street N.E.
 *Evarts, Frances Louise, C. C.; District of Columbia,
 1647 Lamont Street
 *Everett, John Redden, T. C.; Minnesota.....Y. M. C. A.
 Ewing, Paul A., Eng.; District of Columbia.....1327 Clifton Street
 A.B., 1907, University of Nebraska.
 Farmer, Mary Caroline, C. C.; North Carolina,
 651 Lexington Place N.E.
 †Farnham, Arthur Blanchard, Eng.; District of Columbia,
 1774 U Street N.W.
 Farrell, Agnes M., C. C.; District of Columbia....1424 Clifton Street
 Farrell, Charlotte Claire, C. C.; District of Columbia,
 1424 Clifton Street N.W.
 *Farrell, Helen Isabel, C. C.; District of Columbia..1424 Clifton Street
 *Faye, James Jacob, Eng., m.; District of Columbia,
 54 Bryant Street N.W.
 Fearing, Justin Lincoln, C. C.; Massachusetts....Bureau of Standards
 *Fehr, J. Ralph, Eng., e.; Illinois.....915 18th Street
 L.L.B., 1913, George Washington University.

- Ferguson, Elizabeth, T. C.; District of Columbia...1239 Kenyon Street
 Ferguson, Marion Frances, C. C.; District of Columbia,
 1239 Kenyon Street
 Field, Luella, C. C.; District of Columbia.....1934 Calvert Street
 Fink, Henri, C. C.; Virginia.....Stonleigh Court
 *Finley, David Edward, Jr., C. C.; South Carolina,
 1219 Connecticut Avenue
 *Fischer, Melvin Ferdinand, Eng., e.; District of Columbia,
 1006 Massachusetts Avenue N.E.
 Fisher, Howard Cochran, C. C.; District of Columbia...3021 O Street
 Fisher, Jessie Claire, T. C.; District of Columbia,
 71 Randolph Place N.W.
 *Fisher, Letta B., C. C.; District of Columbia.....500 M Street N.W.
 Fisher, Lewis Civile, C. C.; Maryland.....1769 Columbia Road
 Flemer, Henry Lewis, Eng.; District of Columbia,
 710 Maryland Avenue N.E.
 *Flora, Charles Wesley, C. C.; Kansas.....Y. M. C. A.
 Fogerty, Gertrude Catherine, C. C.; District of Columbia,
 1161 5th Street N.E.
 Fogle, Fred M., C. C.; District of Columbia.....1100 Vermont Avenue
 Ford, Florence M., C. C.; Delaware.....615 22nd Street
 Foster, Carrington, Eng.; District of Columbia...303 The Rockingham
 Foster, Ethel Elizabeth, T. C.; District of Columbia...19 Iowa Circle
 Bachelor's Diploma, 1901, Columbia University (Teachers College).
 Fowler, Maude E., C. C.; District of Columbia.....1510 30th Street
 Fraser, William Wright, Eng., e.; Maryland.....1404 Perry Street
 A.B., 1905, New Windsor College; L.B., 1911, George Wash-
 ington University.
 Freemire, Leroy H., Eng.; New York.....1300 10th Street
 Frizzell, Genevieve Margaret, T. C.; District of Columbia,
 241 8th Street N.E.
 Galbraith, Esther Elizabeth, C. C.; District of Columbia,
 3425 14th Street N.E.
 *Galbraith, Robert Karl, Eng.; District of Columbia...1735 1st Street
 Galloway, Alfred E., C. C.; Ohio.....617 Y. M. C. A. Bldg.
 Gantley, Helen Gertrude, T. C.; District of Columbia,
 2425 18th Street N.W.
 Garland, George W., C. C.; District of Columbia,
 1354 North Carolina Avenue N.E.
 Garner, Alan Freeman, C. C.; District of Columbia...1236 Euclid Street
 Garner, Tully Charles, C. C.; Texas.....1120 Vermont Avenue
 Garnett, Ellen, C. C.; District of Columbia.....2013 Q Street
 Gatchell, Marie Ellen, C. C.; District of Columbia...1736 Park Road N.W.
 George, Harold L., C. C.; Massachusetts.....1200 N Street N.W.
 Gersdorff, Wilbur A. J., C. C.; District of Columbia,
 1825 North Capitol Street

- Gessford, Margaret, T. C.; District of Columbia... 1351 Irving Street
 Getty, Annie Graham, T. C.; District of Columbia... 1801 Calvert Street
 Giantvalley, Earl Arnold, C. C.; Minnesota... National Museum
 Gibbs, Kate Maria, T. C.; Massachusetts... 3703 14th Street
 *Gilbert, Russell Lofton, C. C.; District of Columbia,
 230 9th Street N.E.
 *Gilmore, Daniel B., C. C.; Alabama... 108 V Street N.E.
 Goddard, Eunice F., C. C.; Maine... The Magnolia
 Goodman, Leopold A., C. C.; Massachusetts... 1130 6th Street N.W.
 Gore, Michael Alvoid, C. C.; District of Columbia,
 1147 New Hampshire Avenue
 Gottschall, Andrew William, C. C.; Pennsylvania,
 201 Anacostia Avenue, Benning, D. C.
 *Grady, Jenny Powell, C. C.; District of Columbia,
 3122 Q Street N.W.
 Green, Andrew Jordan, C. C.; District of Columbia,
 1804 M Street N.W.
 Green, Elsie Eugenia, C. C.; District of Columbia,
 600 23rd Street N.W.
 Green, Myrtle Annie, T. C.; District of Columbia,
 1317 Maple View Place S.W.
 Griffith, Alice Eleanor, C. C.; District of Columbia... 1846 Ontario Place
 *Griffith, Thomas Edward, Eng., e.; District of Columbia,
 1120 Rhode Island Avenue N.W.
 *Groves, George Summer, Eng., a.; Virginia... 809-10 McLaughlin Bldg.
 Grunwell, Maude E., C. C.; Maryland... 1807 H Street
 Gsantner, Otto Carl, Jr., C. C.; District of Columbia,
 2811 24th Street N.E.
 †Gunther, Kate Whitcomb, C. C.; District of Columbia,
 2129 18th Street
 Hafford, Thomas A., Eng., e.; New York... 1215 O Street
 Haines, Margaret, C. C.; Pennsylvania... 922 19th Street N.W.
 Hale, MacFarland, Eng., m.; Iowa... 613 Columbia Road
 *Haley, Jodie Louise, T. C.; South Carolina... 2106 G Street
 Hall, Irwin W., Eng.; District of Columbia... 4528 9th Street
 Hall, Walter J., C. C.; New York... 225 Indiana Avenue
 Halsey, Arthur Sherman, Eng., m.; Pennsylvania,
 207 East Capitol Street
 Hamilton, Nancy Creel C. C.; Virginia... The Westmoreland
 Hamilton, Bettie Venable, C. C.; Virginia... The Westmoreland
 Hampton, Lucy Jeston, C. C.; Oklahoma... 1105 17th Street
 Handelsman, Samuel, C. C.; New York... 1501 11th Street N.W.
 Hanlon, Thomas J., C. C.; District of Columbia... 715 11th Street N.E.
 Hardy, Margaret Boude, C. C.; District of Columbia,
 812 East Capitol Street
 Harkness, Arthur Williams, C. C.; District of Columbia... 2224 F Street

- †Harper, Charles W., C. C.; District of Columbia..... 610 3rd Street
 Harris, Beverly Humphreys, Eng.; District of Columbia,
 1943 Biltmore Street
 *Harris, Leah Irene, C. C.; Virginia..... 2121 14th Street N.W.
 Harrison, Arthur P., C. C.; Maryland..... Takoma Park, D. C.
 Harsch, Erwin, Eng., e.; Ohio..... 1318 Maryland Avenue, N.E.
 *Hart, Leland P., C. C.; District of Columbia..... 1916 Calvert Street
 Hart, Louise Goff, T. C.; West Virginia..... 515 B Street N.E.
 Hart, Raymond Sagar, Eng., a.; District of Columbia. 31 Adams Street
 Harter, Eugene C., C. C.; Ohio..... 923 12th Street N.W.
 *Hastings, Gertrude, C. C.; District of Columbia..... 905 B Street N.E.
 Hatfield, Harold DeWolfe, Eng., m.; Canada..... 1822 H Street N.W.
 B.S., 1910, Connecticut State College.
 Hauser, Leon Aaron, Eng., e.; New Jersey,
 130 Rhode Island Avenue N.E.
 Hazlett, Sylvia Jane, C. C.; Pennsylvania..... 2005 G Street N.W.
 Heald, Roy Hainer, Eng., m.; District of Columbia,
 1211 Shepherd Street
 Hebb, Bertha Yell, C. C.; District of Columbia.... 1408 M Street N.W.
 *Heilprin, Gertrude, C. C.; District of Columbia. 2620 University Place
 Heindl, Raymond A., Eng., e.; Wisconsin..... 1006 11th Street N.W.
 Heine, Henry William, Eng., m.; District of Columbia,
 502 Rhode Island Avenue N.W.
 Heiss, Frank C., C. C.; New York..... 1105 P Street
 Helgesen, Gladys Lenore, T. C.; North Dakota.... 107 Florence Court
 Hellman, Dorothy, T. C.; Wyoming..... 2804 Cathedral Avenue
 *Hellman, Florence S., C. C.; Wyoming..... 2804 Cathedral Avenue
 Hellmuth, Everett Albert, C. C.; Virginia,
 108 N. Alfred Street, Alexandria, Va.
 Henckels, Theodora Katherine, C. C.; District of Columbia,
 3614 Newark Street
 Henry, C. C., C. C.; Tennessee..... 2036 F Street N.W.
 Herndon, Neal N., Eng., m.; Alabama..... 1515 Vermont Avenue
 *Herring, Annette S., C. C.; West Virginia..... 1213 Delafield Place
 Heron, Louis Mann, Eng., e.; District of Columbia. 1440 R Street
 Hicks, Russell E., C. C.; Maryland..... Rockville, Md.
 Hidnert, Peter, Eng.; New York..... 827 5th Street
 *Higgins, James H., C. C.; District of Columbia..... 1102 L Street
 Higley, Theodore, C. C.; District of Columbia..... 2518 17th Street
 Hill, John Noble, C. C.; Oklahoma..... The Roland, Apartment 21
 Hinton, Raymond James, Eng., e.; New York..... 1534 K Street
 Hinzan, Ada Louise, T. C.; Kentucky..... 1400 29th Street
 Hitz, Martha Suzanne, C. C.; District of Columbia,
 2212 Channing Street N.E.
 Hobbs, Ewart William, C. C.; Illinois..... 1370 Perry Place N.W.
 Hobgood, Katherine White, T. C.; Louisiana... 3631 10th Street N.W.
 *Hobson, Julius Allan, Jr., C. C.; Maryland.... Brentwood, Md.

- †Hodge, Paul F., C. C.; District of Columbia.....2312 19th Street
 Hodgkins, Harry Grant, Jr., Eng., e.; Maryland.....Bethesda, Md.
 Hoffman, Arthur Joseph, C. C.; New York.....Bureau of Standards
 *Holdridge, Anna Pauline, C. C.; District of Columbia,
 2715 P Street N.W.
 Hollister, Mabel Pfrimmer, C. C.; Arkansas.....1338 Oak Street N.W.
 *Holt, Amanda Hamilton, T. C.; Pennsylvania.....218 3rd Street N.W.
 Horn, Arthur, C. C.; Illinois.....1017 12th Street
 Horner, Elva E., C. C.; Pennsylvania.....The Victoria, Apartment 34
 Hotchkiss, Helen R., C. C.; District of Columbia.....2 Kendall Green
 Huff, Elkanah Wynn, C. C.; Colorado.....2152 F Street N.W.
 Hughes, Lotus Graham, C. C.; West Virginia.....701 Munsey Bldg.
 Hughes, Mildred May, C. C.; District of Columbia.....218 6th Street S.E.
 Hull, Flora, C. C.; Nebraska.....The Iowa
 Hunsinger, Belford E., C. C.; Ohio.....151 Uhland Terrace N.E.
 *Hunt, Dorothy, C. C.; Texas.....1353 Euclid Street
 Hunt, Estelle J., C. C.; Texas.....1353 Euclid Street
 Hunt, Paul Jamison, C. C.; District of Columbia.....1204 Girard Street
 *Hurd, Willis L., C. C.; District of Columbia.....1737 Park Road
 *Hurley, John J., Jr., Eng.; District of Columbia.....60 K Street N.W.
 A.B., 1907, Rock Hill College.
 Hutchison, Frances Elizabeth, T. C.; Virginia.....719 A Street S.E.
 *Hutterly, Andrew J., C. C.; District of Columbia.....61 R Street N.W.
 Hyland, Meda Virginia, C. C.; District of Columbia,
 712 G Street N.E.
 Ignasiak, John A., C. C.; Pennsylvania.....1227 11th Street N.W.
 Ingle, Mark James, C. C.; Pennsylvania.....1736 G Street N.W.
 University of Pennsylvania, 1907.
 *Ingram, Charlton Weber, Eng., m.; District of Columbia,
 713 Taylor Street N.W.
 Jackson, Carrie O., C. C.; District of Columbia.....Carlisle Court
 James, William Stubbs, Eng., m.; Massachusetts.....1504 R Street N.W.
 Jeffery, Warren Perry, Eng., a.; Washington.....1502 Vermont Avenue
 Jeffrey, Earl Munro, C. C.; Wisconsin.....3124 Wisconsin Avenue
 Jeffries, John Miller, C. C.; District of Columbia,
 1800 New Hampshire Avenue
 Jelleff, Eleanor Porter, (Mrs. F. P.) Eng.; District of Columbia,
 3360 Mt. Pleasant Street
 *Joerissen, Carl A., C. C.; District of Columbia.....The Rochambeau
 John, Walton Colcord, T. C.; District of Columbia,
 348 Eastern Avenue, Takoma Park, D. C.
 A.B., 1913, Mary Keener Institute, Mexico City.
 †Johns, Laura Steiner, C. C.; Texas.....1901 F Street
 Johnson, Joseph Travis, Jr., C. C.; South Carolina,
 316 Maryland Avenue N.E.
 Johnson, Virginia Head, T. C.; District of Columbia,
 1423 R Street N.W.

- Johnson, William Trimble, Jr., Eng.; Massachusetts,
1701 Euclid Street
- *Johnsonius, Alexander, C. C.; Tennessee.....128 B Street N.E.
- †Jones, Harry B., C. C.; New Jersey.....1739 F Street
- Jordan, Edna M., C. C.; New Hampshire.....The Victoria
- Kain, Helen Gladys, C. C.; District of Columbia...222 E Street N.W.
- Kaiser, Edward J., Eng.; District of Columbia....331 13th Street S.E.
- Karger, Theresa, C. C.; District of Columbia...2616 Cathedral Avenue
- Kass, John, Eng., e.; Michigan.....Y. M. C. A.
- Kause, Arthur J., C. C.; Ohio.....1905 Jackson Street N.E.
- Kause, Robert Lincoln, Eng., e.; Ohio.....1905 Jackson Street N.E.
- Kause, Selma, T. C.; Ohio.....1905 Jackson Street N.E.
- Keenan, Gerald J., Eng., e.; New York.....1826 G Street N.W.
- *Keighley, John F. M., C. C.; Rhode Island....1007 13th Street N.W.
- Keister, James Lewis, Eng.; District of Columbia...1711 7th Street N.W.
- Kellberg, Ira N., C. C.; District of Columbia....1845 Calvert Street
- †Kenealy, Delia M. C. C.; District of Columbia,
44 New York Avenue N.W.
- Kerby, Florence Marcellina, T. C.; District of Columbia...2606 L Street
- †Kerby Katharine, C. C.; District of Columbia.....2606 L Street
A.B., 1913, George Washington University.
- Kerlin, Malcolm, C. C.; New Jersey.....1449 Fairmont Street
- *Keys, Olive M., C. C.; District of Columbia....37 Adams Street N.W.
- Kimball, Dorothy, C. C.; District of Columbia,
1819 Monroe Street N.W.
- Kimmel, Gertrude Louise, C. C.; District of Columbia,
1454 Monroe Street
- Kingsbury, Joseph Bush, C. C.; Iowa.....2323 Ashmead Place
- Kingsbury, Orrin Dean, Eng.; Iowa.....2323 Ashmead Place
- Kirby, Virginia, T. C.; District of Columbia....1347 Parkwood Place
- *Kirchner, Lester Frank, C. C.; District of Columbia....407 P Street
- Kish, Alexander, C. C.; Ohio.....1021 Vermont Avenue
- *Klager, Karoline, C. C.; Michigan.....3157 Mt. Pleasant Street
- Klinge, Ernest F., C. C.; District of Columbia....257 N Street
- Klopfer, Lewis White, Eng., e.; District of Columbia,
6404 Georgia Avenue
- Knotts, Morgan Kingory, Eng.; West Virginia115 5th Street N.E.
- Knowles, Margaret Morton, T. C.; District of Columbia,
132 R Street N.E.
- Kothe, Charles, T. C.; New York.....807 18th Street
- Kraft, Carl F., C. C.; Washington.....1104 12th Street
- Kruger, Henry Alexander, Eng.; District of Columbia,
726 9th Street S.E.
- Krumrein, Louis Frederick, C. C.; Maryland.....24 Grant Place
- Kuehn, Herman A., Eng., e.; Indiana411 P Street N.W.
- Kuohnel, George Daniel, C. C.; District of Columbia,
625 Massachusetts Avenue N.E.

- *Lamb, W. H., C. C.; Nebraska.....Y. M. C. A.
 *Lane, Katherine White, C. C.; Virginia.....Clarendon, Va.
 *Larson, August Einar, Eng., m.; Sweden.....1730 18th Street N.W.
 Lasier, Harriet Catherine, C. C.; New Hampshire..1427 Girard Street
 Laughlin, Earl Cletus, Eng., e.; Wisconsin..1330 Vermont Avenue N.W.
 Lawson, Margaret Lucile, T. C.; District of Columbia,
 206 13th Street N.E.
 Lea, Harvey G., C. C.; Arkansas.....642 C Street N.E.
 Lee, Wm. Canfield, C. C.; Kansas,
 Dairy Division, Department of Agriculture
 Leetch, Henry Winship, C. C.; District of Columbia....3259 R Street
 Leland, Leonard Jesse, Eng.; New York.....27 9th Street N.E.
 Leonard, Lewis Thompson, C. C.; District of Columbia..520 G Street N.E.
 Lewis, Allen Daniels, Eng., m.; District of Columbia,
 1800 8th Street N.W.
 Lewis, Charles Harold, C. C.; District of Columbia..Takoma Park, D.C.
 Lewis, Cuthbert Austin, Eng.; District of Columbia..431 Newton Place
 †Lewis, Ollie L., C. C.; Kentucky.....2226 Decatur Place
 Lewis, Sadie L., C. C.; District of Columbia....3919 Georgia Avenue
 Leyburn, Nellie Cummings, T. C.; Maryland.....Hyattsville, Md.
 Lindsey, Irving, Eng., e.; Virginia..1009 Gibbon Street, Alexandria, Va.
 Lockwood, Charlotte Eleanor, T. C.; Virginia,
 R. F. D. No. 4, Washington, D. C.
 Lockwood, Jane Girvan, T. C.; District of Columbia,
 R. F. D. No. 4, Washington, D. C.
 Lockwood, Margaret Mary, T. C.; District of Columbia,
 R. F. D. No. 4, Washington, D. C.
 Love, Ellen Lane, C. C.; Virginia.....910 Massachusetts Avenue
 Love, Rebecca Laurence, C. C.; Virginia...910 Massachusetts Avenue
 Lowe, Emory R., C. C.; Maryland.....care Civil Service Commission
 Lowe, Mrs. Josephine D., C. C.; District of Columbia,
 2622 Woodley Place
 Lowe, Henry Burton, C. C.; Virginia.....215 5th Street N.E.
 *Luckett, Margaret E., C. C.; District of Columbia..643 6th Street N.E.
 *Luckings, Harry C., C. C.; New Jersey.....508 7th Street
 Lufburrow, Norman A., C. C.; New Jersey.....1912 G Street N.W.
 *Luxford, Donald Lloyd, C. C.; Michigan.....Y. M. C. A.
 Lynch, Charles Rust, C. C.; Virginia.....1903 N Street
 Lynch, George Clifton, Eng.; District of Columbia..4007 5th Street N.W.
 *Lynch, James Joseph, C. C.; Massachusetts...1206 10th Street N.W.
 *Lyons, John H., C. C.; District of Columbia.....4225 8th Street
 McAuley, Hugh Nisbet, Eng.; District of Columbia....The Cordova
 McCleary, Dorothy, C. C.; District of Columbia.....217 I Street
 McCoach, Anna, T. C.; District of Columbia, 2022 North Capitol Street
 McCormick, John D., Eng., e.; District of Columbia,
 1377 North Carolina Avenue
 MacFarlane, Nellie Rae, T. C.; District of Columbia..2005 G Street N.W.

- McGill, Marie Cecilia, T. C.; District of Columbia. 149 12th Street N.E.
McKnew, Donald Harrison, C. C.; District of Columbia, The Burlington
McKnight, Anna Lelia, C. C.; District of Columbia. 3935 7th Street
McLaughlin, DeWitt Terheron, C. C.; Texas. 1359 Spring Road
*Mackintosh, Earl Middleton, C. C.; District of Columbia, 2729 11th Street
MacMurray, Charles Howard, Eng.; New York. 54 Adams Street
Magie, Hazel, C. C.; Maryland. Bethesda, Md.
Magoffin, Dorothy, C. C.; District of Columbia. 1680 Irving Street
Magruder, Oliver Graham, Eng., c.; District of Columbia, 765 Quebec Street
*Mallinson, Elizabeth Louise, C. C.; District of Columbia. The Farragut
†Mann, Lester B., C. C.; Georgia. U. S. Patent Office
Manning, Thomas R., C. C.; District of Columbia. 22 2nd Street N.E.
*Marks, George E., C. C.; District of Columbia. 58 Randolph Place N.W.
Marks, Joseph, Eng., c.; District of Columbia. 903 F Street N.E.
*Marthinson, Detlow Mainch, C. C.; District of Columbia, 1464 Girard Street
Martin, Caroline Matilda Benning, T. C.; District of Columbia, 57 T Street N.E.
Martin, Frank W., Eng., m.; District of Columbia. 60 M Street
*Martin, Wilbur Lynn, C. C.; New York. 1736 G Street N.W.
Maryman, J. Edgar, C. C.; District of Columbia, 1304 Emerson Street N.W.
Mason, Charles Sumner, Eng., a.; District of Columbia. 1747 F Street
Mason, Josephine Dwight, T. C.; District of Columbia, 1348 Euclid Street
Mason, Samuel Worcester, Eng., e.; District of Columbia, 308 B Street N.E.
*Mattern, David Lewis, C. C.; District of Columbia, 1211 New Jersey Avenue
Matthews, Etta Helene, T. C.; District of Columbia, 125 New York Avenue
Maxson, Louis Archer, Eng.; Maryland. Library of Congress
A.B., 1913, George Washington University.
Meany, Lloyd Emmart, Eng., c.; District of Columbia. 908 23rd Street
Meek, Lois Hayden, T. C.; District of Columbia, 50 Rhode Island Avenue
Meese, Norman S., C. C.; New York. 1601 15th Street
Mehurin, Roger Melville, C. C.; District of Columbia, 2031 F Street N.W.
Melay, Edith Willard, T. C.; District of Columbia. 1309 Emerson Street
Mentzer, Florence Eberly, C. C.; Pennsylvania, 605 North Carolina Avenue S.E.
Michael, Jr., John William, Eng.; New York, 18 New York Avenue, N.E.

- †Middleton, Ellis, S., C. C.; District of Columbia..1834 Lamont Street
 Middleton, George Elmer, C. C.; District of Columbia. .3412 13th Street
 Middleton, Herbert Paul, Eng., e.; New York....care State Department
 Middleton, Susie Ruth, C. C.; District of Columbia,
 915 20th Street N.W.
 Middleton, William, C. C.; Virginia.....East Falls Church, Va.
 *Miller, Annette Searle, C. C.; District of Columbia,
 Apartment 24, The Fairfax
 *Miller, James Westcott, C. C.; District of Columbia,
 330 South Carolina Avenue S.E.
 Miller, Karl Willett, C. C.; District of Columbia.....44 V Street
 Miller, Odver Harrison, Eng., e.; Oklahoma....1312 Fairmont Street
 Milliken, Florence Ethel, T. C.; District of Columbia,
 463 P Street N.W.
 Miner, Helen, C. C.; Ohio.....1613 Irving Street
 Mitchell, John LeRoy, Eng., m.; District of Columbia.1241 B Street S.E.
 *Moody, Leander, J., C. C.; Maine.....1 Grant Place
 Moore, James Ballard, Eng.; District of Columbia.1769 Columbia Road
 LL.B., 1913, George Washington University.
 Moore, Louise M., C. C.; District of Columbia..45 Quincy Place N.W.
 *Moore, Susanne A., T. C.; District of Columbia..101, The Wellington
 Moorman, Fannie Amanda, T. C.; Virginia.....The Alamo
 *Moreland, John Edwin, Eng., e.; District of Columbia.1113 15th Street
 Morgan, Katherine, T. C.; District of Columbia.2425 18th Street N.W.
 Moriarty, Ernest Condit, Eng., e.; Virginia,
 Ordnance Office, War Department
 B.S. in E.E., 1912, Cooper Union.
 *Morrison, Hugh Shannon, Eng.; District of Columbia,
 729 15th Street N.W.
 *Mosher, Edith R., C. C.; District of Columbia.....The Dewey
 Moyer, Florence Willard, C. C.; District of Columbia,
 7 Park Avenue, Drummond, Md.
 Mueden, Pauline, C. C.; District of Columbia.....The Portner
 Muench, Elsa Dorothea, C. C.; District of Columbia
 3425 14th Street N.E.
 Mulford, Bessie Boyd, T. C.; District of Columbia...3014 Dent Place
 *Muncey, Eliot May, C. C.; District of Columbia,
 Department of Agriculture
 Munger, Hester Irene, C. C.; District of Columbia,
 1618 North Capitol Street
 †Murlin, Don Elbert, Eng., e.; District of Columbia,
 1874 Monroe Street
 *Murray, John William, C. C.; District of Columbia,
 2313 Pennsylvania Avenue
 Murray, Thomas Patrick, Eng.; Massachusetts.....1830 G Street
 Munson, Orlie J., Eng.; Michigan.....2019 1st Street N.W.

- †Naetzker, Louis, C. C.; New York.....1810 G Street
 Nash, James P., Eng., c.; Pennsylvania...1100 Vermont Avenue N.W.
 Necham, Arthur E., C. C.; Massachusetts.....War Department
 †Negley, Marion Dearborn, Eng.; Virginia,
 221 S. Pitt Street, Alexandria, Va.
 Nelson, Agnes Edna, C. C.; Wisconsin.....2240 Cathedral Avenue
 Nelson, Axel, C. C.; Minnesota.....104 C Street N.E.
 Nelson, Byron Christopher, C. C.; Wisconsin...2240 Cathedral Avenue
 Nelson, Ina Forrest, C. C.; District of Columbia...1308 Belmont Street
 †Nelson, Norman J., C. C.; North Dakota.....1739 F Street
 Neumann, Frederika, C. C.; District of Columbia...701 A Street S.E.
 Neumann, Louis D., C. C.; Illinois.....1108 15th Street N.W.
 Neuman, Meta, C. C.; District of Columbia.....707 A Street S.E.
 Newhouser, Enola Harriet, T. C.; District of Columbia,
 217 East Capitol Street
 Nichol, James Wallace, C. C.; District of Columbia,
 Bureau of Corporations
 *Nicholas, George Emmet, C. C.; District of Columbia...719 8th Street
 Nichols, Helen Gilman, T. C.; District of Columbia,
 2604 University Place
 Nickel, William, Eng.; Colorado.....Y. M. C. A.
 Nickles, Edward Belmer, Eng., m.; District of Columbia,
 122 Florida Avenue N.W.
 Niess, Edward Mark Carvell, C. C.; District of Columbia,
 61 Rhode Island Avenue
 Noonan, Thomas William, Eng.; New York.....1226 Euclid Street
 Norman, Caroline B., C. C.; Maryland.....Pension Bureau
 Norris, Dorus Helen, C. C.; District of Columbia...35 Q Street N.E.
 Norton, Cecil Brooks, T. C.; District of Columbia...1908 9th Street
 Norton, Frederiek Aloysius, C. C.; Massachusetts,
 Bureau of Chemistry
 Nottingham, William Warde, Eng.; District of Columbia,
 Apartment 4, 121 12th Street S.E.
 Nussear, Charles F., Eng.; District of Columbia...248 11th Street S.E.
 Oberholser, Harry Church, C. C.; New York...1444 Fairmont Street N.W.
 Offut, Magruder Wilson, Jr., Eng.; Maryland.....Bethesda, Md.
 O'Halloran, Thomas Stuart, Eng.; District of Columbia,
 2210 F Street N.W.
 *O'Hara, Elizabeth, T. C.; District of Columbia...135 S Street N.W.
 *O'Leary, Arthur E., C. C.; Massachusetts.....911 M Street
 Ostrow, Walter W., C. C.; Virginia.....938 F Street N.W.
 Owens, Howard Clifton, C. C.; Maryland.....529 18th Street
 Owens, Thomas Guy, C. C.; Maryland.....529 18th Street
 Owens, Walter J., C. C.; District of Columbia...Newport Apartment 41
 Pahl, L. F. William, C. C.; District of Columbia...Congress Heights
 Parrack, Cecil A., C. C.; West Virginia.....800 21st Street N.W.
 Parris, Morris Addison, C. C.; District of Columbia...3022 P Street

- Passmore, Senes Breton, Eng.; Pennsylvania.....115 5th Street N.E.
 Patrick, Erwin Chambers, Eng.; District of Columbia,
 600 23rd Street N.W.
 Patrick, Nelle Freeland, T. C.; Missouri.....755 Harvard Street
 Patrick, Wellington, T. C.; District of Columbia..755 Harvard Street
 Patterson, Ruth Capelle, T. C.; District of Columbia,
 2016 15th Street
 †Patterson, Robert W., 3rd, C. C.; District of Columbia,
 1309 Kenyon Street
 *Paul, Frieda Elizabeth, C. C.; Pennsylvania..1707 No. Capitol Street
 Paul, Mabel Spenser, C. C.; District of Columbia..3537 Holmead Place
 Paul, Walter Edwin, C. C.; Illinois.....3537 Holmead Place N.W.
 Payne, James Stanley, C. C.; District of Columbia,
 818 North Carolina Avenue S.E.
 Paynter, Vernon E., C. C.; Virginia.....The Cairo
 Peck, Allen Eugene, Eng., m.; District of Columbia,
 1448 Fairmont Street
 Peet, Elizabeth, C. C.; District of Columbia,
 Gallaudet College, Kendall Green
 *Peters, Joseph W., C. C.; Missouri...1914 Avenue of The Presidents
 Petrie, John S., Eng., m.; District of Columbia..2815 6th Street N.E.
 *Phillips, Cecelia Day, C. C.; District of Columbia,
 832 Rittenhouse Street
 Phillips, George Washington, C. C.; District of Columbia,
 612 18th Street N.W.
 Phillips, John William, C. C.; Washington.....The Cumberland
 Phoebus, Mildred Anna, C. C.; District of Columbia,
 1925 North Capitol Street
 *Pimper, Frederick William, C. C.; District of Columbia,
 1302 30th Street
 Piper, Edgar Raymond, C. C.; Connecticut.....2106 F Street
 *Planck, Mildred Marion, C. C.; Nebraska..2224 F Street, Apartment 32
 Pope, Ruth Vesta, C. C.; California.....1340 Meridian Place
 Pope, George S., Eng., m.; District of Columbia,
 1321 East Capitol Street
 Popkin, Hymen, C. C.; New Jersey.....616 E Street
 *Potbury, Robert John, Eng.; District of Columbia,
 1131 Euclid Street
 B.S. in C.E., 1912, George Washington University.
 Powell, Jos. R., Eng.; Louisiana.....1324 Q Street N.W.
 *Posey, Jane, T., C.; District of Columbia.....1225 Euclid Street
 *Pou, George Rose, C. C.; North Carolina..107 Maryland Avenue N.E.
 Powell, Adele Grenet, T. C.; District of Columbia.....The Dresden
 Powell, William Henry, C. C.; Virginia.....1508 P Street N.W.
 Preinkert, Alma Henrietta, C. C.; District of Columbia..1511 L Street
 Price, Virginia Williams, T. C.; District of Columbia,
 1104 East Capitol Street

- Prince, Ethel Thomas, T. C.; District of Columbia...161, The Portner
 *Prosise, Alan Brooke, Eng.; Virginia...1107 Rhode Island Avenue N.W.
 †Prouty, Frances, C. C.; Iowa.....2610 Woodley Place
 Pusey, Elmer M., C. C.; District of Columbia.....Gallaudet College
 Putnam, John Risley, C. C.; Arizona,
 care George R. Putnam, Light House Commissioner
 Pywell, Laura Virginia, T. C.; District of Columbia...72 V Street N.W.
 Quinlan, Margaret Marie, C. C.; New York.....539 21st Street
 *Rader, Frank Joseph, Eng.; District of Columbia...903 G Street S.E.
 Rager, Amy Elizabeth, C. C.; District of Columbia, 812 21st Street N.W.
 Ramage, Laeta Marion, T. C.; District of Columbia,
 1804 Wyoming Avenue
 Ramsdell, Paul, Eng., c.; District of Columbia...1945 Calvert Street N.W.
 Ramsey, Herbert Percy, C. C.; District of Columbia,
 813 Massachusetts Avenue N.E.
 Randall, Bernice, T. C.; District of Columbia.....2035 F Street
 *Rattner, Abraham, Eng., m.; New York.....1400 K Street N.W.
 Raymond, Norman Tichnor, C. C.; New Jersey...1406 Allison Street
 Reavis, Andrew Bryant, Eng.; Tennessee...1502 Vermont Avenue N.W.
 A.B., 1912, George Washington University.
 Reed, Clare L., C. C.; District of Columbia, 308, The Northumberland
 Reese, Ada Elizabeth, C. C.; District of Columbia,
 1445 Clifton Street N.W.
 *Reese, Clement Milton, Eng., m.; Maryland.....Y. M. C. A.
 Reeve, Felicia Ann, T. C.; District of Columbia.....1626 19th Street
 *Reeve, Laura Washburn, T. C.; District of Columbia,
 1626 19th Street N.W.
 Reid, James Osborne, Eng., c.; Louisiana.....931 M Street N.W.
 †Renand, Frank H., Eng.; Illinois.....Room 631, Y. M. C. A.
 Renner, Wilbert Vernon, Eng., c.; District of Columbia,
 1405 F Street N.W.
 *Rice, Samuel W., Eng., c.; District of Columbia...2217 Q Street, N.W.
 Richard, Charles Bailey, Eng.; Colorado.....1860 Mintwood Place
 Richards, Henry Tilton, T. C.; District of Columbia,
 Apartment 4, The Landmore
 Richards, Ivah, T. C.; District of Columbia...1439 Rhode Island Avenue
 Richardson, Della Dean, C. C.; District of Columbia...1806 K Street
 Riley, Thora M., C. C.; District of Columbia.....2141 LeRoy Place
 Riordan, Charles E., Eng.; Massachusetts.....916 15th Street N.W.
 Robinson, Ednah Florence, T. C.; District of Columbia...2817 28th Street
 *Rochon, Louise Antoinette, C. C.; District of Columbia...3303 13th Street
 *Rogers, Earl H., Eng.; Virginia...R. F. D. No. 4, Washington, D. C.
 Rohrer, Joseph R., C. C.; Ohio.....2112 F Street
 †Romney, Kenneth, C. C.; Montana.....House Office Building
 *Rorke, George Gordon, C. C.; District of Columbia...223 A Street N.E.
 Rose, Leonard Julian, Eng., c.; District of Columbia...708 19th Street
 Rose, Mary Estelle, T. C.; District of Columbia...2963 Tilden Street N.W.

- *Rosenberg, Samuel Lee, Eng., e.; District of Columbia,
655 16th Street N.E.
- Rowley, Clifford A., Eng.; South Dakota.....1344 Kenyon Street
M.P.L., 1909; S.B., 1911, George Washington University: LL.B.,
1909; LL.M., 1912 National University Law School.
- Ruff, Julia Elizabeth, C. C.; District of Columbia...505 A Street S.E.
- Russell, Paul G., C. C.; District of Columbia...3538 Warder Street N.W.
- Rydalch, William Noble, C. C.; Utah.....207, Y. M. C. A.
- St. Clair, Albert Thurston, C. C.; District of Columbia,
1319 T Street N.W.
- Salant, Annie (Mrs.) C. C.; District of Columbia.....3429 34th Place
- Sale, Prentiss Dixon, Eng., e.; District of Columbia...225 8th Street N.E.
- Sanders, Elsie, T. C.; District of Columbia.....1515 Park Road
- Saunders, Harold George, C. C.; District of Columbia...Y. M. C. A.
- Saunders, Randall Nash, Eng., m.; District of Columbia,
1534 6th Street N.W.
- Scala, Norman P., C. C.; District of Columbia,
918 South Carolina Avenue S.E.
- Scales, Freeman M., C. C.; District of Columbia,
The Glen, No. 2, Quarry Road
- Scharff, Stella Wilhelmina, C. C.; District of Columbia...620 5th Street
- *Schellfeffer, Frank, C. C.; Illinois.....Y. M. C. A.
- Schenck, Stella R., (Mrs.) C. C.; Indiana...514 Kenyon Street N.W.
- †Schladt, George J., Eng., e.; Maryland.....Potomac Heights, D.C.
- Schmidt, Reuben, C. C.; District of Columbia.....13 H Street N.W.
- *Schmitt, Edwin Alexis, Eng., e.; District of Columbia,
Ridgewood Avenue, Chevy Chase, Md.
- Schoenfeld, Rudolf Emil, C. C.; District of Columbia,
3448 34th Place, Cleveland Park, D. C.
- Schragenheim, Betty, C. C.; Germany.....1822 Lamont Street
- *Schul, Louise, C. C.; District of Columbia.....110 C Street N.E.
- Schwarzmam, Elsie Pearl, C. C.; Virginia,
117 N. Alfred Street, Alexandria, Va.
- Scott, Howard, C. C.; District of Columbia...1715 Euclid Street N.W.
- Scott, Mabel Lavinia, C. C.; District of Columbia...1455 Girard Street
A.B., 1907, George Washington University.
- Scovill, Almeda Higgins, T. C.; Connecticut...910 Massachusetts Avenue
- Seamon, Alexander Rives, C. C.; Virginia. Drawer 148, Alexandria, Va.
- *Searle, Juliet MacCall, T. C.; District of Columbia,
1131 12th Street N.W.
- Seibold, Theodosia Darling, C. C.; District of Columbia,
756 Rock Creek Church Road
- Seiler, Alfred Grove, C. C.; District of Columbia,
American University Park
- Seip, Albert Birney, Eng.; District of Columbia...2622 13th Street N.W.
- Selah, Miriam Highes, T. C.; District of Columbia...17 3rd Street N.E.

- Seltzer, Harry Gabriel, T. C.; Pennsylvania.....1312 23rd Street
 Shaffer, Joseph M., C. C.; Massachusetts.....801 4 $\frac{1}{2}$ Street S.W.
 Shanley, Rebecca E., T. C.; Pennsylvania...623 North Capitol Street
 †Sheffield, Edgar L., C. C.; District of Columbia...1017 12th Street
 Shipley, Joseph Wilson, Eng.; Maryland.....Hyattsville, Md.
 Shoemaker, Fred Eugene, Eng., e.; District of Columbia...147 T Street
 Short, Helen M., C. C.; District of Columbia.....1511 Park Road
 Shuman, Royal Lewis, C. C.; Pennsylvania.....3519 14th Street
 Sylvester, Jane B., C. C.; District of Columbia...2005 Kalaroma Road
 Simpson, Francis Porter, C. C.; Montana23 1st Street N.E.
 Skinner, Arthur William, Eng., m.; Maryland...Takoma Park, D. C.
 *Sligh, W. H., C. C.; South Carolina.....473 F Street S.W.
 †Smith, Hawley Armistead, C. C.; District of Columbia,
 637 Massachusetts Avenue N.E.
 Smith, I. Wilmer, Eng.; District of Columbia.....610 M Street N.W.
 *Smith, James Leroy, Eng.; District of Columbia,
 109 Rhode Island Avenue N.E.
 *Smith, Jessie MacLure, C. C.; Pennsylvania, 423 Massachusetts Avenue
 Smith, Joseph S. W., C. C.; Pennsylvania...423 Massachusetts Avenue
 Smith, McClain Barnitz, Eng., e.; Pennsylvania...658 Morris Street N.E.
 *Smith, Mai Francis, C. C.; District of Columbia...1326 Euclid Street
 Smith, Raymond C., Eng.; District of Columbia...1002 B Street S.W.
 Smith, Talma L., C. C.; Texas.....1201 Q Street
 *Smith, Walter Scott, C. C.; Virginia.R. F. D. No. 2, Alexandria, Va.
 *Smith, William F., Eng.; District of Columbia...1340 F Street N.E.
 Snyder, Carl Francis, C. C.; District of Columbia...3111 16th Street
 *Snyder, Frederick H., C. C.; Maryland.....219 A Street S.E.
 Snyder, Walter Douglas, Eng.; Wisconsin...U.S. Naval Observatory
 Soule, Hope Mildred, C. C.; District of Columbia. 107 2nd Street N.E.
 Southgate, Letitia Park, C. C.; District of Columbia,
 1429 Fairmont Street N.W.
 Sowders, Harold George, C. C.; Ohio.....Y. M. C. A.
 Speake, Katherine G., C. C.; District of Columbia.The Westmoreland
 Spear, Albert A., C. C.; District of Columbia...4 Sixth Street N.E.
 *Spear, Hiram E., Eng.; District of Columbia. 1241 Morse Street N.E.
 Spiker, Clarence Jerome, C. C.; District of Columbia,
 2917 13th Street N.W.
 Springer, Lew Wallace, C. C.; New Mexico.....The Dresden
 *Stahl, Benton M., C. C.; District of Columbia...313 12th Street S.W.
 Stancill, Edna Teresa, C. C.; Indiana, Apartment 26, 1444 W Street
 †Starr, Arthur Price, Eng.; New York.....120 Randolph Place N.W.
 Starr, Relda A., C. C.; District of Columbia. 120 Randolph Place N.W.
 Steele, Benjamin P., C. C.; District of Columbia,
 38 Seaton Place N.W.
 Steinberg, Aaron, C. C.; New York.....1109 14th Street
 Steinberg, Abraham, C. C.; New York.....1109 14th Street

- †Steltz, Rachel Dorothy, C. C.; District of Columbia,
611 North Carolina Avenue S.E.
- Sterling, Ralph J., C. C.; Ohio.....633 Y. M. C. A. Bldg.
- Sterrett, Grace Haver, C. C.; District of Columbia.1229 Harvard Street
- Stewart, Elizabeth Tabb, T. C.; Virginia.....East Falls Church, Va.
- *Stewart, Mary, T. C.; District of Columbia.627 Maryland Avenue N.E.
- †Stockard, Marietta, T. C.; North Carolina.....1627 Lamont Street
- *Stockett, Nellie, T. C.; District of Columbia....312 4th Street S.E.
- Stockton, Thomas Jefferson, Eng., e.; District of Columbia,
1944 2nd Street N.W.
- Stoever, Frank Wallace, Eng. District of Columbia..2536 14th Street
- Stone, Edna L., C. C.; District of Columbia.1618 Rhode Island Avenue
- Stonier, Harriet Marsh, Eng.; District of Columbia.....The Toronto
- Stout, Jane, C. C.; District of Columbia.....1435 9th Street
- †Straeten, Emretta Root, C. C.; District of Columbia.1004 Park Road
- Stroop, David Vincent, Eng.; Maryland.....1729 New York Avenue
- Stuckert, Harry Eugene, Eng., e.; Arkansas.....Kensington, Md.
- Sturtevant, Georgia A., C. C.; District of Columbia.2233 Q Street N.W.
- Stutler, H. Ward, Eng., a.; West Virginia.....Treasury Department
- Sullivan, Howard Cheseldine, Eng.; Maryland,
Box 324, Mt. Rainer, Md.
- Summy, Ethel, T. C.; District of Columbia.....1623 R Street N.W.
- *Swann, Theodore Magruder, C. C.; Virginia.....Clarendon, Va.
- *Swartzell, Henry Rodley, C. C.; District of Columbia,
2117 Bancroft Place
- Taggart, Earl, C. C.; Iowa.....1008 Euclid Street
- Tait, David Selwin, C. C.; District of Columbia, 2016 O Street N.W.
- Talcott, John J., Eng.; District of Columbia.....509 9th Street S.E.
- Tallman, H. W., C. C.; Michigan.....120 U Street N.W.
- Taylor, Florence M., C. C.; District of Columbia.100 5th Street N.E.
- †Taylor, James Norman, C. C.; Delaware.....The Victoria
B.S. in Chem., 1913, George Washington University.
- Taylor, Perry Edward, C. C.; Texas.....712 20th Street
- Taylor, Walter Madison, Eng.; Illinois.....142 Adams Street
- Temple, Grace Lincoln, C. C.; District of Columbia.....The Farragut
- *Tennyson, James Anna, T. C.; District of Columbia,
1938 Biltmore Street
- Terry, Leo Claude, C. C.; District of Columbia,
133 Quincy Place N.E.
- Terwisae, Anthony T., Eng., e.; District of Columbia,
718 7th Street N.E.
- Thomas, Charles L., C. C.; Texas,
State, War and Navy Bldg., Room 64
- †Thomas, Earle Van Buren, Eng.; District of Columbia,
437 Rhode Island Avenue N.W.
- Thomas, Genevieve Elwood, C. C.; District of Columbia,
3120 Mt. Pleasant Street

- Thomas, Lisle, C. C.; Michigan.....901 M Street
 Thompson, George Dixon, C. C.; District of Columbia. 3155 19th Street
 Thompson, Harry Woodward, C. C.; Iowa.....1340 Girard Street
 Thornton, Smith Gordon, C. C.; Louisiana... 447 Senate Office Bldg.
 Tietig, Chester, C. C.; Ohio.....1400 L Street N.W.
 Tiffany, Emma Ruth, T. C.; District of Columbia,
 3409 Brown Street N.W.
 *Tilton, Fletcher Sandford, C. C.; District of Columbia,
 Library of Congress
 Timm, Minnie Emelie, C. C.; Washington.....The Magnolia
 Townsend, Anna C., C. C.; District of Columbia... The Buckingham
 *Townsend, George Lincoln, Eng.; Pennsylvania. 3221 13th Street N.W.
 *Townsend, T. H., Eng., c.; Texas.....1611 Lincoln Avenue N.E.
 Townsend, Robert Swan, C. C.; District of Columbia. 1447 Irving Street
 Troller, Anne, C. C.; Wisconsin.....702 20th Street
 True, Marion, T. C.; District of Columbia.....1320 Fairmont Street
 Tunstall, John Liggat, C. C.; District of Columbia. 1713 Kilbourne Place
 Turrell, Elizabeth Carr, C. C.; Indiana.....3316 Mt. Pleasant Street
 *Tyler, Tom Thornburgh, C. C.; District of Columbia,
 706 Randolph Street
 Tyndall, Mary Siphord, T. C.; District of Columbia. 1008 I Street N.W.
 Umbach, Paul, Jr., Eng.; Missouri.....505 4th Street N.W.
 Underwood, Mary Louise, T. C.; District of Columbia,
 707 East Capitol Street
 Upton, William Bayly, Jr., Eng.; District of Columbia,
 3420 Newark Street, Cleveland Park, D. C.
 *Valaer, Peter, Jr., C. C.; District of Columbia,
 Bureau of Internal Revenue
 Vanderwerker, Mary Isabel, T. C.; District of Columbia,
 308 East Capitol Street
 VanDoren, Charlotte Augusta, T. C.; District of Columbia,
 647 East Capitol Street
 Van Doren, Emma May, T. C.; District of Columbia,
 639 Massachusetts Avenue, N.W.
 Van Kirk, Lloyd H., C. C.; Pennsylvania.....1854 Ingleside Terrace
 Van Loock, Albert M., Eng.; District of Columbia. 104 15th Street N.E.
 *Vardaman, James K., Jr., C. C.; Mississippi... Senate Office Bldg.
 Von Seyfried, Emma M., T. C.; New Jersey.....2308 20th Street
 Vose, J. Raymond, C. C.; Kentucky.....2018 F Street N.W.
 *de Waard, Enno, C. C.; Holland.....729 20th Street
 *Wade, Roy W., C. C.; Missouri.....2439 N Street
 *Waggaman, Mae E., C. C.; District of Columbia,
 Plymouth Apartment
 Wagner, David, C. C.; Russia.....1700 15th Street
 Walker, Alberta, T. C.; District of Columbia... 1634 S Street N.W.
 Walker, Clarence Herman, C. C.; Pennsylvania... 1736 G Street N.W.
 B.S. in C.E., 1912, University of Pennsylvania.

- Walters, Marion Irven, Eng.; District of Columbia,
3228 Warder Street
- Walton, Melville R., C. C.; District of Columbia, ... 816 I Street N.E.
- Wanlass, Eva Page, C. C.; Utah, ... 2106 F Street N.W.
- Wanlass, William L., C. C.; Utah, ... 2106 F Street
- Wanstall, Grace, T. C.; District of Columbia, ... 1706 F Street N.W.
- Warner, May, C. C.; Indiana, ... 459 Luray Place N.W.
- Watskey, Jack, C. C.; Virginia, ... Y. M. C. A. Bldg.
- *Watson, Leo Paul, C. C.; Missouri, ... 65 U Street N.W.
- Weaver, Amelia Elizabeth, C. C.; Oklahoma, ... 110 East Capitol Street
- Weber, Elizabeth, T. C.; Maryland, ... Berwyn Heights, Maryland
- Weber, John Augustus, Eng., a.; Pennsylvania, ... 518 6th Street N.E.
- Webster, John Fraser, C. C.; Oklahoma, ... 1736 G Street
- Weinstein, Reuben, C. C.; New York, ... 24 N Street N.W.
- West, Warren Reed, C. C.; District of Columbia, ... 304 D Street N.E.
- *Weston, Elbertine Cowling, T. C.; District of Columbia,
3447 Oakwood Terrace
- Wharton, Roger Daniel, Eng., c.; District of Columbia,
3411 Oakwood Terrace
- Wheeler, Alden Meyers, C. C.; California, ... 1764 K Street
- *White, Walter Finton, C. C.; District of Columbia, ... 307 C Street N.W.
- Whitford, Bessie, T. C.; District of Columbia, ... 3369 18th Street
- Wilbur, Elizabeth Sabrina, C. C.; District of Columbia, ... 2107 S Street
- Wilhelm, Robert Mason, C. C.; Maryland, ... 1845 Calvert Street
- Wilkins, Laurence Ordway, C. C.; District of Columbia,
The Congressional
- Williams, Edith Arvonja, C. C.; District of Columbia,
3512 11th Street
- Wilson, Edith Eleanor, C. C.; District of Columbia,
620 14th Street N.E.
- Wilson, Joseph H., Eng., m.; Pennsylvania, ... 1303 R Street
- Wilson, Margaret Posey, C. C.; District of Columbia, ... 219 1st Street N.E.
- †Wilson, Mary Badger, C. C.; North Carolina, ... 1901 Q Street
- Wimer, Alfred Kingston, C. C.; District of Columbia, ... 114 S Street N.W.
- Wimer, Martha E., T. C.; District of Columbia, ... The Imperial
- Wingate, Charles Ludwell, C. C.; District of Columbia,
2423 18th Street N.W.
- Wingate, Florence, C. C.; District of Columbia, ... 2641 Garfield Street
- Winne, Rachel Augusta, C. C.; New York, ... 1743 Church Street
- †Woldstad, Rachel M., C. C.; Massachusetts, ... 718 19th Street
- Wolf, Ethel, C. C.; District of Columbia, ... 235 W Street N.W.
- †Wolfe, Leo Addison, C. C.; Pennsylvania, ... 2022 F Street
- *Wong, Ung Ce, C. C.; China, ... 1418 L Street
- †Wood, Thurston E., C. C.; District of Columbia, ... 2143 N Street
- Woods, Frederick Davis, Eng.; Arkansas, ... 1100 Vermont Avenue
- Woodward, Francis Albert, Eng., m.; District of Columbia,
751 Quebec Street

Worrell, Everil, C. C.; District of Columbia..	The Naples, 715 19th Street
Worster, Louise, T. C.; District of Columbia.....	942 B Street S.W.
*Wright, John Holt, Eng.; District of Columbia.....	2109 18th Street
Wright, Leonora Haviland, T. C.; District of Columbia,	
	The Gladstone, 1423 R Street N.W.
Wu, Su-ying Chiao, C. C.; China.....	1825 Vernon Street
*Wynkoop, Adrian Garrett, Jr., C. C.; West Virginia,	
	Federal National Bank
Yerkes, Joseph Deal, C. C.; District of Columbia..	1365 Monroe Street
Wu, Ying, C. C.; China,	
	The Holland, Apartment No. 6, 1825 Vernon Street
Yoder, Bertha Alice, T. C.; District of Columbia....	1225 Euclid Street
Yoder, Bessie Lee, T. C.; District of Columbia.....	1225 Euclid Street
Yost, Elsie May, C. C.; District of Columbia,	
	1002 Pennsylvania Avenue S.E.
Zinssmeister, Grace Mary, T. C.; District of Columbia,	
	1364 Girard Street

SUMMARY

Graduate Students

Students in attendance.....	6	
Candidates for D.C.L. degree.....	1	
Candidates for C.E. degree.....	6	
Candidates for E.E. degree.....	2	
Candidates for M.E. degree.....	1	
Candidates for S.M. degree.....	27	
Candidates for A.M. degree.....	24	
Candidates for Ph.D. degree.....	27	
	94	
Duplicates.....	2	92

Undergraduate Students

Columbian College

Candidates for A.B. degree.....	228	
Candidates for B.S. in Chemistry degree.....	49	
Candidates for B.S. in Medicine degree.....	4	
Candidate for Master of Diplomacy degree.....	1	
Special.....	180	
Auditors.....	13	484

College of Engineering

Candidates for B.S. in Arch. degree.....	9	
Candidates for B.S. in C.E. degree.....	38	
Candidates for B.S. in E.E. degree.....	28	
Candidates for B.S. in M.E. degree.....	32	
Special.....	98	205

Teachers College

Candidates for A.B. and Teachers' Diploma.....	116	
Candidates for Teacher's Diploma.....	1	
Special.....	10	
Auditors.....	3	130
		<hr/> 911
Duplicates.....		7
		<hr/> 904

PROFESSIONAL DEPARTMENTS

LAW SCHOOL

Students who are college graduates are indicated by the degree, year in which it was received and name of the college conferring it.

Students who have had only part of a college course in addition to the necessary preparatory education are indicated by the names of the colleges attended.

First Year

Alexander, Walter Richardson; Missouri.....	1110 Rhode Island Avenue
University of Missouri.	
Allen, James Thatcher; District of Columbia.....	1833 U Street
Atherton, Wallace Irving; Washington.....	1100 Vermont Avenue
University of Pennsylvania.	
Baker, Lawrence Adams; District of Columbia,	
3141 Highland Avenue, Cleveland Park	
A.B., 1913, Princeton University.	
Bardwell, Halsey Warren; Vermont.....	Apartment 601, The Alabama
Ph.B., 1910, Ewing College.	
Barrett, Samuel Melton; District of Columbia..	1304 Fairmont Street
The George Washington University.	
*Bates, Lloyd Graham; Pennsylvania.....	1741 G Street
Batt, Joseph Harper; Delaware.....	The Landmore
The George Washington University.	
Baxter, Chester C.; Ohio.....	1815 Lamont Street
S.B., 1908, Ohio Northern University.	
Beadle, John Bookwalter; District of Columbia....	312 A Street S.E.
The George Washington University.	
Berkeley, Norborne; Virginia...Episcopal High School, Alexander, Va.	
University of Virginia.	
Bird, Branch; Kentucky.....	1101 K Street
Center College, Kentucky.	
†Boeke, Charles Leslie; Illinois.....	509 Union Trust Building
*Boyle, Francis; New York.....	1829 California Street
The George Washington University.	
Breuninger, Lewis T; District of Columbia.....	3208 19th Street
A.B., 1913, Johns Hopkins University.	

- Brooks, Grace Elisabeth Platt; Connecticut.....2120 G Street
 Brown, Alvin McCreary; Maryland.....Berwyn, Md.
 The George Washington University.
 Brown, Earle L.; Iowa.....1333 Fairmont Street
 Brown, Harold L.; Iowa.....1333 Fairmont Street
 Brown, Ralph Waldo; District of Columbia.....2626 University Place
 E.M., 1912, Lafayette College.
 Bryant, Niles, Jr.; Illinois.....1100 Vermont Avenue
 Bull, Charles Roy; Maine.....334 Maryland Avenue N.E.
 A.B., 1913, Bowdoin College.
 Burchfield, William Eden; District of Columbia.....4429 Georgia Avenue
 Burrows, Tremaine Kellogg; New York.....6902 5th Street
 A.B., 1897, University of Nebraska.
 †Campbell, Max Durham; Maryland.....Woodside, Md.
 Chamberlin, Pierre Audrey; District of Columbia.....1323 M Street
 The George Washington University.
 Chang, Chen Yen; China.....1715 G Street
 Chinese National College, Shanghai.
 Clark, Marion; Maryland.....McKinley Manual Training School
 A.B., 1901; A.M., 1904, Western Maryland University.
 Cornwell, Douglas Van Valkenburg; District of Columbia,
 2140 Wyoming Avenue
 B.S. in Econ., 1913, University of Pennsylvania.
 *Crozier, Frank H; Illinois.....318 3d Street
 *Cullum, Clarence S; District of Columbia.....109 Bates Street
 Davis, Joe H; Texas.....708 19th Street
 Deal, Roy Linney; Virginia.....R. F. D. No. 4, Alexandria, Va.
 A.B., 1911, The George Washington University.
 †Desha, John Rollins; Hawaii.....300 2d Street N.E.
 A.B., 1912, Harvard University.
 Desha, Stephen Langhern, Jr.; Hawaii.....283 House Office Building
 Dix, Howard Whedon; New York.....1236 Euclid Street
 M.E., 1911, Cornell University.
 Domer, Harry Tennyson; District of Columbia.....727 15th Street
 A.B., 1900; A.M., 1903, The George Washington University.
 Draeger, Henry Herman; South Dakota.....1025 Vermont Avenue
 *Earll, Donald Montgomery; Maryland.....Department of Agriculture
 The George Washington University.
 Eudaley, Glenn Robert; Kentucky.....916 15th Street
 *Everett, John Redden; Minnesota.....Y. M. C. A.
 The George Washington University.
 Farmer, Max D.; District of Columbia.....18 Todd Place N.E.
 B.S., 1910, Michigan Agricultural College.
 Fickas, Melville Philip; Arizona.....1436 M Street
 The George Washington University.
 Fisher, Martin Tucker; District of Columbia.....1802 Wyoming Avenue
 B.S., 1913, Harvard University.

- Francis, Marshall H; Ohio.....617 12th Street
Western Reserve University.
- †Friedland, Karl Benjamin; Utah.....1430 Rhode Island Avenue
- Geekie, George; Massachusetts.....Y. M. C. A.
- †Gray, Eugene Hollister; New York.....4101 Connecticut Avenue
A.B., 1911, Yale University.
- Gregg, Will Reeves; Texas.....The Cairo
A.B., 1913, Austin College.
- †Gross, Robert Frank; California.....The Woodward
Graduate, 1907, United States Naval Academy.
- Haines, Elvans Diehl; District of Columbia.....1340 R Street
The George Washington University.
- Hamack, Frank Hartmond, Jr.; Minnesota.....Y. M. C. A.
- Hardie, John F., Jr.; New York.....1921 North Capitol Street
- *Harrington, Katherine; District of Columbia....Conduit Road, D. C.
B.S., 1906; M.S., 1908, The George Washington University.
- †Hartwig, Harvey Clarence; Wisconsin.....1804 G Street
University of Wisconsin.
- Hastings, William Riley; Tennessee.....1006 B Street
- †Haymes, Lonnie Slavens; Missouri.....224 3d Street S.E.
B.Pe., 1913, Springfield, Missouri, State Normal School.
- †Henneman, H. E.; Wisconsin.....1736 G Street
- Hill, Elsie Mary; Connecticut.....The Burlington
A.B., 1906, Vassar College.
- †Hilliard, Barrymore Nugent; Washington. 1226 Massachusetts Avenue
Leland Stanford University.
- *Hillje, Harry; Iowa.....925 Westminster Street
- Hodgkins, Howard Wilkinson; District of Columbia.....The Octavia
B.S. in C.E., 1913, The George Washington University.
- Hollingsworth, Roger P.; District of Columbia.....2815 14th Street
- Hoover, John Edgar; District of Columbia.....413 Seward Square S.E.
- Howard, Dudley Blanchard; Dist. of Columbia. 314 East Capitol Street
- Huff, John James; Iowa.....1736 G Street
A.B., 1909, State University of Iowa.
- *Hulsizer, Robert Inalee; Massachusetts.....1903 N Street
Massachusetts Institute of Technology.
- Humphrey, Paul N.; Nebraska.....The Roland
- Hunt, Edwin Brendel; District of Columbia.....4318 14th Street
- Hunter, Rosser Lee, Jr.; District of Columbia.....1021 B Street S.E.
The George Washington University.
- Hutchinson, Lewis Orrin; Connecticut.....604 Gresham Place
A.B., 1910, Yale University.
- Hyde, Jules Verne; Missouri.....The Dunsmere
University of Missouri.
- Jackson, Thomas Jefferson; Tennessee.....423 Bond Building
LL.B., 1911, Cumberland University.
- Jeffries, John M.; District of Columbia...1800 New Hampshire Avenue
The George Washington University.

- Johnson, Wayne; Montana.....1432 M Street
University of Montana.
- Johnston, Charles H. L.; District of Columbia, 1219 Connecticut Avenue
A.B., 1899, Harvard University.
- *Jones, Millard Ward; Pennsylvania.....The Clermont
Franklin and Marshall College.
- *Kay, Clarence Eugene; Arkansas.....Folkstone Courts
- Keith, Raymond Lyles; District of Columbia.....214 8th Street S.E.
- Kent, Henry J.; District of Columbia.....3145 Mt. Pleasant Street
The George Washington University; Massachusetts Institute of
Technology.
- Laporte, Ewing Mitchell; Missouri.....U. S. Senate Post Office.
- Larkin, Neil Edwin; South Dakota.....809 13th Street
- Lauck, Lee G.; West Virginia.....1445 Massachusetts Avenue
- Layne, John H.; Illinois.....334 Maryland Avenue N.E.
- Lee, Edward Brooke; Maryland.....Silver Spring, Md.
Princeton University.
- Lewis, Stuart; Illinois.....325 House Office Building
- Lind, Charles A.; Minnesota.....1420 R Street
Valparaiso University.
- *Louis, Hsiao-Min Soulé; China.....2001 19th Street
A.B., 1912, George Washington University; A.M., 1913, Univer-
sity of Pennsylvania.
- *McAvoy, Catherine Agatha; District of Columbia, 1860 Columbia Road
A.B., 1908, The George Washington University.
- McGuire, Ruby Ridgway; Oklahoma.....2219 California Street
University of Michigan.
- Major, Archie Moyer; Washington.....1006 Massachusetts Avenue
A.B., 1913, University of Washington.
- Mann, Earle Elmer; Massachusetts.....1242 11th Street
S.B., 1900, Worcester Polytechnic Institute.
- Mann, Joseph Ernest; North Carolina.....800 10th Street
- Marcus, M. Manning; Wisconsin.....The Valois
The George Washington University.
- Marthinson, Detlow Mainch; District of Columbia,
1788 Columbia Road
- †Merritt, Robert Gwathmey; New York.....Forest Service
B.F., 1910; F.E., 1913, Biltmore Forest School.
- *Mitchell, Lennard Harris; District of Columbia. 2219 California Street
- Monty, Willis Ellsworth; Vermont.....610 22d Street
- Moon, Arthur Clifton; District of Columbia,
26 Carroll Avenue, Takoma Park D. C.
- Morehouse, P. B.; District of Columbia.....1526 O Street
Cornell College, Iowa.
- Morman, Raymond J; Pennsylvania.....929 Rhode Island Avenue
- Morris, Daniel Leigh; District of Columbia.....823 Jefferson Street
- Morrow, Hewey Bascom, Jr.; Tennessee.....128 13th Street N.E.

- Myers, Paul Forest; Pennsylvania.....The Kenyon
A.B., 1913, Princeton University.
- Neal, Kenneth Stanley; Connecticut.....1769 Columbia Road
B.S., 1911, Worcester Polytechnic Institute.
- *Nickerson, Harry Arthur; Maine.....The Hamilton
A.B., 1913, Rollins College.
- Norris, Rhesa Niles; Pennsylvania.....2121 O Street
The George Washington University.
- *O'Harra, Stanford Leland; Ohio.....909 C Street N.E.
- Parks, George Edward; Illinois.....2463 6th Street
The George Washington University.
- Parsons, Charles Edward; District of Columbia....210 1st Street S.E.
Dartmouth College.
- Penix, William Roy; Arkansas.....1006 Massachusetts Avenue
A.B., 1912, University of Arkansas.
- Phillips, Homer; District of Columbia.....3327 18th Street
- *Platt, Frank Liming; Pennsylvania.....1736 G Street
University of Pennsylvania.
- Potter, Edward Lee; Virginia.....1313 K Street
A.B., 1910, Washington and Lee University.
- †Powell, William McCauley, Jr.; Pennsylvania.....325 A Street S.E.
University of Pennsylvania.
- Pringle, Kenneth G; Illinois.....1432 M Street
- †Reavis, Newton C.; Tennessee.....1903 N Street
Vanderbilt University.
- Rhoads, Thomas William; Pennsylvania.....717 5th Street N.E.
- Roberts, Iorwerth J.; Pennsylvania.....1218 Spring Road
The George Washington University.
- Robeson, Alexander C.; District of Columbia.....1859 Monroe Street
Dartmouth College.
- Semmes, Harry Hodges; District of Columbia.....2208 Q Street
B.S., 1913, Dartmouth College.
- Shaeffer, Glenn Marion; Kansas.....Y. M. C. A.
- Shaver, Homer Tipton; Oregon.....101 Maryland Avenue N.E.
A.B., 1913, Pacific University.
- Shields, John Ridley; District of Columbia.....1464 Clifton Street
- Shoemaker, Raymond LeRoy; Maryland.....1402 H Street
Cornell University.
- Silver, Charles; Maryland.....Patent Office
B.Chem., 1911, Cornell University.
- Smith, Myron A.; Texas.....289 House Office Building
A.B., 1913, Austin College.
- *Spare, Romeyn Andrew; Massachusetts.....Patent Office
A.B., 1908, Harvard University.
- Springer, Lew Wallace; New Mexico.....The Dresden
The George Washington University; University of Wisconsin.
- *Springs, Laertes Pittman; District of Columbia...1945 Calvert Street

- *Stahl, Benton Mehrling; District of Columbia.....313 12th Street
D.V.M., 1912, The George Washington University.
- Tavener, Leslie James; New York.....60 M Street
- *Thistlethwaite, Mark; Indiana.....The Burlington
Litt.B., 1901, Swarthmore College.
- Thompson, Manly G.; Iowa.....1107 13th Street
- Thornton, Smith Gordon; Louisiana.....447 Senate Office Building
Louisiana State University; The George Washington University.
- Tibbitts, Russell D.; District of Columbia.....3341 18th Street
- Torgerson, Gustavus Maurice; Alabama.....114 Rhode Island Avenue
- Towner, Archibald Reed; New York.....925 K Street S.E.
- Tyssowski, John; Virginia.....Room 95, Home Life Building
B.S., 1908, University of California.
- Underwood, Joseph Younglove; District of Columbia.....1421 U Street
Ogden College, Kentucky.
- Van Schaick, Francis Edward; New York.....1417 Massachusetts Avenue
- Van Vleck, Arthur Nye; District of Columbia,
Washington Loan and Trust Building
- *Wakefield, Walter Harold; New York.....600 F Street
The George Washington University.
- †Walter, Jefferson Francis; Virginia.....1737 17th Street
A.B., 1911, Washington and Lee University.
- †Watson, Robert Clement; District of Columbia.....3301 16th Street
C.E., 1913, Lehigh University.
- *Webb, William Claxton; District of Columbia.....1818 Monroe Street
- *Webster, Hugh; District of Columbia,
Office of Experiment Department of Agriculture
B.S. in Agriculture, 1912, Iowa State College.
- Welch, Williams; District of Columbia.....War Department
Newberry College, S. C.; LL.B.; LL.M.; M.P.L., Georgetown
University.
- Wiegand, Henry Frank; District of Columbia.....The Woodworth
B.S. in E.E., 1911; E.E., 1913, The George Washington University.
- Wilkins, Andrew Clifford; Illinois.....1412 Massachusetts Avenue
State University of Illinois.
- *Wing, G. Harold Grant; District of Columbia.....2615 Woodley Place
- Winn, Talmadge S.; District of Columbia.....2016 G Street
A.B., 1907, University of Georgia.
- Winstead, Chauncey Southerland; District of Columbia.....1905 Park Road
- †Young, Herbert Russell; Texas.....327 House Office Building
A.B., 1913, University of Texas.

Second Year

- Addison, John West; Virginia.....Bureau of Corporations
A.B., 1905; A.M., 1906, Washington and Lee University.
- Anderson, Samuel Victor; Mississippi.....House Office Building

- Austin, Charles Morrison; Tennessee..... The St. Regis
Graduate, 1905, U. S. Naval Academy.
- Baldrige, Elbert Baker; Tennessee.....2120 G Street
A.B., 1905, Asbury College.
- Bartholomew, Don C.; Ohio.....Senate Office Building
The George Washington University.
- Berend, Max, Jr.; Ohio.....608 A Street N.E.
- Branch, Hilarion Noel; Mexico.....Mexican Embassy
- Bratton, Leslie Emmett; Nebraska.....The Parkwood
Graduate, 1907, United States Naval Academy.
- Brown, Lee Hoxie; District of Columbia.....2464 Ontario Road
The George Washington University.
- Burger, Alfred; Virginia.....Patent Office
- Butterwick, Leonard L.; North Dakota.....2821 27th Street
- Church, Kortright; District of Columbia.....1608 20th Street
A.B., 1912, Yale University.
- *Cornell, Herbert Watson; Colorado.....1738 F Street
A.B., 1908, University of Colorado.
- Coryell, William Cornelius; Kentucky.....346 Senate Office Building
A.B., 1906, Ohio Wesleyan University.
- Crews, Chalsia E.; Missouri.....1913 North Capitol Street
- Finkel, William Henry, Jr.; District of Columbia.....918 F Street
The George Washington University.
- Frederick, Alfred Hardin; Texas.....1236 Euclid Street
- Griggs, Elmer Vernon; Iowa.....Patent Office
B.S. in E.E., 1908; B.M.E., 1909, Iowa State College.
- Grover, Charles S.; Indiana.....3616 Newark Street
- †Hatch, Robert Harrison; Massachusetts.....1236 Euclid Street
A.B., 1911, Dartmouth College.
- Haugen, Lauritz G.; Iowa.....Winston Hotel
University of Minnesota.
- Haycraft, Everett Fairfield; Texas.....23 Todd Place N.E.
- Healy, Joseph Edward; Virginia.....1903 N Street
- Hill, George Sydney; Massachusetts.....1432 M Street
The George Washington University.
- Hoffman, Henry B.; District of Columbia.....1120 7th Street N.E.
- James, Joseph Pierson; California.....1504 H Street
Leland Stanford University.
- Jenks, Clayton Louis; New York.....3020 Macomb Street, Cleveland Park
A.B., 1906; M.S., 1909, Hamilton College.
- Jensen, Julius Christian; Iowa.....1343 L Street
State University of Iowa.
- Johnson, Ross Holbrook; District of Columbia.....1804 Belmont Road
The George Washington University.
- Jones, Shirley Penrose; Utah.....1100 Vermont Avenue
- *Keats, Harold; District of Columbia.....1810 Kalorama Road
A.B., 1912, The George Washington University.

- Kelly, William F., Jr.; District of Columbia.....2117 Flagler Place
The George Washington University.
- Kuntz, Herbert Oscar; Pennsylvania.....2715 13th Street
- LaFollette, Wm. Leroy, Jr.; Washington.....1459 Harvard Street
State College of Washington.
- *Lindsay, Alfred Briscoe; District of Columbia...701 Munsey Building
A.B., 1913, The George Washington University.
- Lyon, John; Virginia.....618 Colorado Building
University of Virginia.
- McClellan, Edwin North; Pennsylvania.....The Rochambeau
University of Pennsylvania.
- McFall, John Monteith; South Carolina.....1409 20th Street
A.B., 1904, College of Charleston; M.A., 1906, Columbia Uni-
versity.
- Marechal, Greer McInnis; Alabama.....1527 I Street
A.B., 1908, University of Alabama.
- *Meagley, George Crandal; District of Columbia.....The Sherman
A.B., 1911, Yale University.
- Miltenberger, William Fernand; District of Columbia...1738 M Street
Georgetown College, University of Paris.
- Mozingo, Harley I.; Colorado.....1830 G Street
- *Mulligan, William Miles; District of Columbia.3104 Mt. Pleasant Street
The George Washington University.
- Osborn, Clarence C.; South Dakota.....Rosslyn, Va.
- Parmelee, Earle Linsley; Pennsylvania.....1454 Fairmont Street
- Pierce, James Francis; Michigan.....Patent Office
B.C.E., 1912, University of Michigan.
- Potter, Charles Hollister; North Carolina.....918 F Street
A.B., 1913, The George Washington University.
- *Reese, Francis Sydney; Maryland.....606 Y. M. C. A.
- Reinhardt, John Joy; Nebraska.....1717 S Street
The George Washington University.
- Rogers, George C.; New York.....1755 Lamont Street
- Rogers, James Cunningham; District of Columbia...3546 13th Street
University of Pittsburg.
- Roper, Daniel Calhoun, Jr.; South Carolina,
816 Massachusetts Avenue N.E.
Sanborn, George Allen; Wisconsin.....1318 30th Street
A.B., 1912, The George Washington University.
- Schenck, Arthur C.; District of Columbia.....514 Kenyon Street
- Schmied, James William; Ohio.....18 Iowa Circle
B.S., 1910, Ohio Northern University.
- Shaw, Randolph Codman; District of Columbia...1419 R Street
Washington and Lee University.
- Shepard, William Wallace; California.....1517 P Street
- Smith, Breedlove; Texas.....289 House Office Building
A.B., 1912, Austin College.

- Smith, Henry Charles Albert; Ohio.....Y. M. C. A.
Heidelberg University, Tiffin, Ohio.
- Smith, Robert William; District of Columbia.....1418 Allison Street
- Sprague, Clarence Andrew; District of Columbia,
1923 Summit Place N.E.
B.S., 1904, Syracuse University.
- Stanley, Elton Wood; South Dakota.....1767 Church Street
University of Wisconsin.
- Stevens, Arthur E.; Missouri.....Weather Bureau
- Stewart, Elmer; District of Columbia.....1812 Lamont Street
B.S. in Chem., 1912, The George Washington University.
- Stoddard, Alfred L.; Iowa.....1709 17th Street
University of Wisconsin.
- Stone, Jesse Raymond; Wisconsin.....173 Uhland Terrace N.E.
B.Litt, 1899, University of Wisconsin.
- Thompson, Alfred Wright; District of Columbia...25th and E Streets
The George Washington University.
- Thurman, Samuel D.; Utah.....Interstate Commerce Commission
University of Utah.
- Trudgian, Andrew Beers; West Virginia.....603 Columbia Road
University of Pennsylvania.
- Vaughn, Orville R.; Tennessee.....Y. M. C. A.
- Wadsworth, John Thaddeus; Maine.....1505 Vermont Avenue
A.B., 1909, Bates College.
- Whitehorn, Homer A.; Nebraska.....1814 Park Road
A.B., 1908, Nebraska Wesleyan University.
- Wilson, Laurence Norton; Idaho.....1502 Vermont Avenue
The George Washington University.
- Wright, Clarence Edward; Utah.....1100 Vermont Avenue
Agricultural College of Utah.
- Wynne, Carl Monroe; Missouri.....Y. M. C. A.
A.B., 1913, University of Missouri.

Third Year

- Acker, Harold Knowles; District of Columbia.....913 16th Street
- Anderson, Paul; Illinois.....1735 New Hampshire Avenue
- Baker, Charles Silas; District of Columbia.....Conduit Road, D. C.
A.B., 1911, Cornell University; A.M., 1912, Columbia University.
- Barr, John Lester; District of Columbia.....The Wyoming
A.B., 1910, Harvard University.
- Barton, Walter Elbert; Idaho.....1502 Vermont Avenue
- Baumgartner, Edgar Foster; New Jersey.....The Champlain
M.E. 1911, Lehigh University.
- *Bickel, Harvey Cleveland; Pennsylvania.....Y. M. C. A.
- Bisson, Louis Alfred; Massachusetts.....3011 Georgia Avenue
Worcester Polytechnic Institute.

- Black, Henry George Atkinson; Massachusetts,
636 Rock Creek Church Road
Massachusetts Institute of Technology.
- Borland, Paul Raymond; Pennsylvania.....1903 N Street
A.B., 1910, Washington and Jefferson College.
- Clark, Bennett Champ; Missouri.....Congress Hall Hotel
A.B., 1913, University of Missouri.
- Clark, Merrell Edward; New York.....818 17th Street
M.E., 1911, Cornell University.
- Cox, John Dee; Texas.....4300 Kansas Avenue
Southwestern University.
- Crane, Alpheus Jennings; District of Columbia. 2930 Thayer Street N.E.
B.S. in E.E., 1903, Purdue University.
- Creekmore, Thomas Leonidas; Virginia.....1502 Vermont Avenue
- Cumpston, Edward Henry, Jr.; District of Columbia...818 17th Street
M.E., 1909, Cornell University.
- Elkins, Harry Scott; South Dakota.....1502 Vermont Avenue
- Enlows, Harold Franklin; Illinois.....Office Indian Affairs
- Evans, Budd; Minnesota.....2520 12th Street
- Fitch, William Reed; North Dakota.....Y. M. C. A.
The George Washington University.
- Fletcher, Frederick Dix; Washington.....Y. M. C. A.
- Fraizer, Cecil C.; Indiana.....1412 Euclid Street
University of Pennsylvania.
- Freyer, Frank Barrows; District of Columbia.....1929 S Street
Graduate, United States Naval Academy.
- †Gordon, William Alexander, Jr.; Montana.....3023 Q Street
- Greenberg, Louis; District of Columbia.....612 N Street
The George Washington University.
- Hall, Bartow Harwood; Colorado.....1821 I Street
A.B., 1910, Amherst College.
- Hamner, Lunsford Loving; District of Columbia...1853 Calvert Street
A.B., 1913, University of Virginia.
- Handy, William Upshur; District of Columbia...3312 Highland Avenue
- Hawley, Luther W.; Vermont.....Patent Office
B.S., 1908, Worcester Polytechnic Institute.
- Howard, Frank Atherton; Illinois.....Patent Office
B.S. in M.E., 1911, The George Washington University.
- Hubbard, Elliott S.; New York, Superintendent of Documents, G. P. O.
- Johnson, Arthur Chilion; Colorado.....901 20th Street
University of Colorado.
- Jones, Carl Curtis; Maine.....United States Senate Library
- Jones, Franklin Daniel; Illinois.....Bureau of Corporations
A B., 1910, State University of Iowa.
- *Krogstad, Robert Bacon; District of Columbia.....1524 K Street
- McCawley, Harrison Byington; Iowa.....1432 M Street
A.B., 1910, Drake University.

- Mapes, Carl Anthony; Michigan.....419 District Building
 Meckley, Robert Byers; Pennsylvania.....1236 Euclid Street
 B.S. in E.E., 1908, Pennsylvania State College.
 Morse, Robert Virgil; New York.....818 17th Street
 M.E., 1911, Cornell University.
 Oberlin, John Jay; Maryland.....Patent Office
 A.B., 1901, Washington and Lee University.
 Oren, James Paul; Pennsylvania.....Bureau of Corporations
 Read, Raymond Edgar; Massachusetts.....The Melrose
 Rice, Willis Ballance; New York.....1913 Park Road
 M.E., 1907, Cornell University.
 Rose, Claude Custer; Ohio.....115 R Street N.E.
 M.E., 1905, Ohio State University.
 Rubenstein, Samuel; New York.....1501 11th Street
 Sanders, Harold Benthall; Mississippi.....1013 10th Street
 B.S., 1910, Mississippi Agricultural and Mechanical College.
 Savage, Henry J.; Michigan.....1227 Girard Street N.E.
 B.S. in E.E., 1908, University of Michigan.
 Schaeffer, Harrold Christian; District of Columbia.....1825 Riggs Place
 Schantz, Leroy Christian; Iowa.....Patent Office
 B.S. in E.E., 1908, Iowa State College.
 Scheffer, Joseph Walter; Connecticut.....1717 S Street
 Simpson, Archer Roberts; Connecticut.....1903 N Street
 A.B., 1911, Yale University.
 Sinclair, Beverly Kennon; Virginia.....1822 I Street
 *Smith, Charles Watson; Pennsylvania.....423 Massachusetts Avenue
 University of Chicago.
 Smith, Frank Brown; Maryland, 11 E. Lexington Street, Baltimore, Md.
 Spahr, Neal Bradford; Tennessee.....942 I Street
 A.B., 1911, University of Chattanooga.
 Stafford, Edward; District of Columbia.....1725 Lamont Street
 A.B., 1911, Dartmouth College.
 Stevenson, Charles Stanley; Kansas.....180 Uhland Terrace N.E.
 Symons, Thomas William, Jr.; District of Columbia,
 1606 New Hampshire Avenue
 A.B., 1911, Yale University.
 Tanner, Marion Snow; Utah.....1502 Vermont Avenue
 A.B., 1911, University of Utah.
 *Tolbert, James Ora; Iowa.....Y. M. C. A.
 Van Wagoner, John D.; Utah.....Y. M. C. A.
 *Walker, John Earl; Michigan.....1402 L Street
 B.S., 1907, Kalamazoo College; B.S., 1907, University of Chicago.
 Weikert, Edward Wilford; Pennsylvania.....Patent Office
 Ph.B., 1906, Brown University.
 Wenderoth, Ernest Ferdinand; New York.....Patent Office
 B.S. in E.E., 1910, The George Washington University.

- White, Joseph Curtis; Maine.....334 Maryland Avenue N.E.
A.B., 1911, Bowdoin College.
- Woodman, William Hidden; New Jersey.....1432 M Street
B.S., 1908, Dartmouth College.
- Woodson, Walter Browne; Virginia.....Navy Department
Graduate, 1907, United States Naval Academy.
- Wright, Ulysses Wayne; Illinois.....1307 R Street
A.B., 1911, Illinois College.

MASTER OF LAWS

- Bower, Frank Albert; New York.....2627 Adams Mill Road
M.E., 1910, Cornell University; LL.B., 1913, The George Wash-
ington University.
- Brookes, John St. Clair, Jr.; District of Columbia..1525 Corcoran Street
A.B., 1907; M.A., 1910; LL.B., 1913, The George Washington
University.
- Davenport, Lewis Howard; New York.....Department of Agriculture
LL.B., 1910, The George Washington University.
- †DeAtley, Harry B.; Kentucky.....511 E Street
LL.B., 1912, State University of Kentucky.
- Denning, William Ira; Georgia.....4127 9th Street
LL.B., 1913, The George Washington University.
- *Dow, William John; Missouri.....2020 North Capitol Street
LL.B., 1913, The George Washington University.
- Gibbon, Charles Hugh; Wisconsin.....The Arkwright
LL.B., 1913, The George Washington University.
- *Kause, Arthur John; District of Columbia.218 Post Office Department
LL.B., 1913, The George Washington University.
- *Krogstad, Robert Bacon; District of Columbia.....1524 K Street
Cornell University; LL.B., 1913, The George Washington
University.
- *Miyasaki, Motohiko; Japan.....1310 N Street
LL.B., 1913, University of Southern California.
- *Phillips, Adon Daniel; District of Columbia.....1419 G Street
B.S., 1906; LL.B., 1908, The George Washington University.
- Schnare, Lester Llewellyn; Georgia.....The Akron
LL.B., 1913, The George Washington University.
- Smith, Frank Seymour; District of Columbia.....1631 16th Street
A.B., 1910, Wesleyan University; LL.B., 1913, The George Wash-
ington University.
- †Thomas, Julian M.; Utah.....215 Senate Office Building
LL.B., 1913, University of Utah.
- Zacharias, Robert Mathias; Pennsylvania.....1717 S Street
A.B., 1907, Franklin and Marshall College; LL.B., 1913, The
George Washington University.

SPECIAL STUDENTS

- †Allan, Ernest Anderson; Maine..... Hamilton Hotel
- *Beehtold, John Meyers; District of Columbia..... 1930 2d Street N.E.
- *Benson, Charles A.; Georgia..... 341 Bryant Street
Georgia School of Technology.
- *Berman, Jacob; Connecticut..... General Land Office
Ph.B., 1910; C.E., 1912, Yale University.
- Buck, John J.; Idaho..... 1400 K Street
- *Davis, David Cady; Massachusetts..... 3605 11th Street
S.B., 1906, Massachusetts Institute of Technology.
- Devine, William J.; Pennsylvania..... 1463 Rhode Island Avenue
Georgetown College.
- Harter, Eugene Claudius; Ohio..... 923 12th Street
The George Washington University.
- *Harvey, Frederick L., Jr.; District of Columbia..... 2146 Florida Avenue
- Hemrich, Ernest Edward; Washington..... 1100 Vermont Avenue
- *Hill, Ralph Waldo Snowden; District of Columbia..... 1113 16th Street
LL.B., 1909, University of Virginia.
- Hodges, Graham Brooke; District of Columbia..... 1343 Euclid Street
- Humphreys, William Yerger; Mississippi..... House Document Room
- †Jackson, John Ellert; Texas..... 712 20th Street
- Kern, Charles Everett; District of Columbia..... 1406 G Street
- *Kimball, Henry Frankland; District of Columbia..... 4324 14th Street
- King, Harold Compton; District of Columbia..... 3030 O Street
- *Landon, Chauncey Louis; District of Columbia..... 1432 M Street
- Low, Theodore Henry; Connecticut..... 1627 I Street
- *McCoy, William Mitchell; District of Columbia..... The Woodworth
- Maxwell, Harry; Oklahoma..... 23 1st Street N.E.
- Milburn, John R.; Maryland..... Patent Office
B.S., 1906, Dickinson College; LL.B., 1912, Georgetown University.
- *Muhleman, Albert Kenton; District of Columbia..... 713 14th Street
The George Washington University.
- *Nielson, Joseph N.; Illinois..... 1615 Florida Avenue
B.S. in Arch., 1911, The George Washington University.
- Pilcher, Dalton Jefferson; District of Columbia..... 216 G Street N.E.
- Reavis, Andrew B.; Tennessee..... 1502 Vermont Avenue
A.B., 1912, The George Washington University; LL.B., 1911,
National University.
- †Roberts, Howard Payne; District of Columbia..... 413 4th Street N.E.
LL.B., 1913, Georgetown University.
- *Ruth, Charles Frederick; District of Columbia,
1709 New Hampshire Avenue
- †Ryan, James A.; Minnesota..... Y. M. C. A.
- Saddler, Clarence Theodore; Nevada..... 156 House Office Building
- Schofield, Joseph King; District of Columbia..... 1844 Park Road

Shawn, Franklin Denwood; Pennsylvania.....	235 War Department
Siegfried, Alvin; South Dakota.....	18 Iowa Circle
†Soule, Grant W.; Idaho.....	Y. M. C. A.
University of Utah.....	
Stuart, G. Forrest; Idaho.....	1502 Vermont Avenue
*Truxton, Paul Probasco; District of Columbia.....	1742 S Street
Van Kirk, Lloyd H.; District of Columbia.....	1854 Ingleside Terrace
The George Washington University.....	
Veach, Robert Spangler; Virginia.....	415 4th Street
Willis, George Bullock; Virginia.....	Route No. 3, Alexandria, Va.
Winkelhaus, William August; Illinois.....	4126 8th Street
Woolley, Arthur; Utah.....	No. 2, The Riggs, 1409 15th Street
Zernia, Edward; Illinois.....	1 Girard Street N.E.

AUDITORS

†Munden, Ralph; Pennsylvania.....	Patent Office
M.E., 1906, Cornell University; LL.B., 1913, The George Wash- ington University.....	
†Straw, Charles Alonzo, Jr.; Massachusetts.....	3014 Dent Place
A.B., 1901, Harvard University; LL.B., 1913, George Washing- ton University.....	

SUMMARY

Candidates for LL.B. Degree.....	
First year.....	154
Second year.....	75
Third year.....	68
Total.....	297
Candidates for LL.M. Degree.....	15
Special.....	42
Auditors.....	2
	356
Duplicate.....	1
Total.....	355
Candidates for degrees.....	311
Candidates for degrees who are college graduates.....	113
Percentage.....	36.33
Candidates for degrees who have had all or part of a college course.....	191
Percentage.....	61.41

COLLEGE GRADUATES, CANDIDATES FOR DEGREES

Alabama, University of.....	1	Nebraska, University of.....	1
Amherst College.....	1	Nebraska Wesleyan Univer-	
Arkansas, University of.....	1	sity.....	1
Asbury College.....	1	Ohio Northern University....	2
Austin College.....	3	Ohio State University.....	1
Bates College.....	1	Ohio Wesleyan University....	1
Biltmore Forest School.....	1	Pacific University.....	1
Bowdoin College.....	2	Pennsylvania, University of..	2
Brown University.....	1	Pennsylvania State College..	1
California, University of.....	1	Princeton University.....	2
Charleston, College of.....	1	Purdue University.....	1
Chattanooga, University of .	1	Rollins College.....	1
Chicago, University of.....	1	Swarthmore College.....	1
Colorado, University of.....	1	Syracuse University.....	1
Columbia University.....	2	Texas, University of.....	1
Cornell University.....	8	Utah, University of.....	1
Dartmouth College.....	4	U. S. Naval Academy.....	5
Drake University.....	1	Vassar College.....	1
Ewing College.....	1	Virginia, University of.....	1
Franklin & Marshall College.	1	Washington, University of..	1
George Washington Univer-		Washington & Jefferson Col-	
sity.....	16	lege.....	1
Georgia, University of.....	1	Washington & Lee Univer-	
Hamilton College.....	1	sity.....	4
Harvard University.....	5	Wesleyan University.....	1
Illinois College.....	1	Western Maryland Univer-	
Iowa, State University of....	2	sity.....	1
Iowa State College.....	3	Wisconsin, University of....	1
Johns Hopkins University....	1	Worcester Polytechnic Insti-	
Kalamazoo College.....	1	tute.....	3
Lafayette College.....	1	Yale University.....	6
Lehigh University.....	2		
Michigan, University of.....	2		117
Michigan Agricultural Col-		Counted twice.....	4
lege.....	1		
Mississippi Agricultural and		Total.....	113
Mechanical College.....	1	Candidates for degrees.....	309
Missouri, University of.....	2	Percentage.....	36.56

MEDICAL SCHOOL

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

First Year

Bailey, Marion Prentiss; South Carolina.....	601 M Street
Barrett, Charles Porter, Jr.; District of Columbia.....	1217 K Street
*Blank, Nathan; New York	
Bolton, Boyce Richardson; District of Columbia.....	1319 Q Street
Brian, Victor McMurry; Illinois.....	1209 L Street
Brothers, Ralph Steel; Indiana.....	630 Gresham Place
Cafritz, Edward Alexander; District of Columbia.....	315 Q Street
Cobham, James Lyons; New York.....	1314 I Street
Collins, George Aloysius; Pennsylvania.....	1215 K Street
Connor, Jack Anthony; District of Columbia.....	2227 F Street
Cortés, Manuel Quintana; Porto Rico.....	24 Grant Place
Davis, Ralph Harold; New York.....	1335 H Street
Dickerson, Ghio Dorrell; Virginia.....	916 R Street
Dowling, George Brackett; District of Columbia.....	3603 14th Street
*Duvall, Russell Lee; District of Columbia.....	621 A Street N.E.
Elmore, Henry Gibson; District of Columbia.....	1335 H Street
Fadeley, James McNelledge; Virginia.....	Falls Church, Va.
Ferguson, William Murray; Rhode Island.....	1313 K Street
Frischkorn, Charles Rock; Pennsylvania.....	1242 Newton Street N.E.
Gill, William Tignor, Jr.; District of Columbia.....	442 M Street
Groesbeck, Bertram, Jr.; District of Columbia.....	1824 S Street
*Harris, W. G.; Virginia	
Hartley, Gilbert Vernon; District of Columbia.....	611 E Street S.E.
Hayn, Julius John Frederick; New York.....	1209 L Street
Hecht, David; New York.....	208 D Street
Henderson, Robert Edgar; District of Columbia.....	1405 Delafield Place
Herschman, Myer Jerome; District of Columbia.....	2733 P Street
*Hewett, Robert Raymond; Massachusetts	
Hines, Clifford Gentner; District of Columbia.....	1512 Columbia Road
Houghton, James Edwin; Pennsylvania.....	1102 14th Street
†Hourwich, Nicholas I.; New York.....	1206 N Street
Jaffe, Leon; New York.....	2120 H Street
Keighley, John Frederick Marshall; Rhode Island.....	1313 K. Street
D.D.S. 1912, University of Maryland.	
Kennedy, Glen Marion; California.....	1435 9th Street
Klein, Kart Karl; New York.....	1209 L. Street
Kotz, Jacob; Russia.....	1005 6th Street, N.E.
Lecker, Frank; New York.....	1435 9th Street
Legge, Kenneth Dartmouth; District of Columbia.....	214 A Street, S.E.
Little, John Frank, Jr.; Georgia.....	131 A Street, N.E.
*McChesney, Frank Marks; New York.....	129 Randolph Place
McDowell, John Stafford; New York.....	1214 12th Street
Mann, Jesse Thomas; District of Columbia.....	611 8th St., N.E.

Manning, Wilbur Oscar; Pennsylvania.....22 2nd Street, N.E.
 Manus, Harry Martin; New York.....2120 H Street
 Mason, Lyle Millan; Virginia.....308 B Street, N.E.
 Miller, Robert Bartle; District of Columbia.....1320 10th Street
 Miller, William Campbell; District of Columbia...Takoma Park, D. C.
 Montgomery, Howard Howlett; Maryland,

R. F. D. No. 1, Silver Springs, Md.

Mueller, Louis Eugene, R. N.; Wisconsin.....518 H Street, Apt. 43
 Mulligan, Edward William; Rhode Island.....1101 L Street
 Murphy, Edward Aloysius; New Jersey.....1215 K Street
 Myers, Robert Lindsey; Virginia.....111½ N. Pitt St., Alexandria, Va.
 Northrup, Lewis V., Jr.; New York.....610 L Street, N.E.
 Oden, Axel Robert; Sweden.....1730 M Street
 Otis, Fessenden Newport; Connecticut.....1217 K Street
 Otis, Israel Sabine; Connecticut.....1217 K Street

*Patton, George Ernest; Tennessee.

*Persons, Thomas George; Colorado.....215 S Street
 Powell, William Henry; Virginia.....1517 P Street
 Rawson, George Henry; Massachusetts.....1618 H Street
 Recca, Albert; New York.....1115 17th Street
 Reel, George H., Jr.; New Jersey.....1141 12th Street
 Satterlee, Richard Covert; Illinois.....518 H Street, Apt. 43
 Schoenfeld, Herbert Hermann, District of Columbia,

3448 34th Place, Cleveland Park

Shinn, Herbert Linville; District of Columbia....145 11th Street N.E.
 Snider, Ivan; Oklahoma.....1217 K Street
 Speidel, Francis George; District of Columbia.....2309 1st Street
 Staknievick, John Henry; District of Columbia....3479 Holmead Place
 *Stille, Everett Sherman; Maryland,

1418 Harlem Avenue, Baltimore, Md.

Stone, Raymond Rodeffer; Virginia.....812 B Street N.E.
 Storch, Raymond Bernard; District of Columbia...142 E Street N.E.
 Sullivan, Earle Eugene; New York.....1335 H Street
 Thompson, Ralph Mortimere; Virginia.....1409 L Street
 Ph.G., 1910, University College of Medicine, Richmond, Va.

*Trachtenberg, Benjamin; New York

Villamil, Jose Rosado; Porto Rico.....24 Grant Place
 Weaver, Clarence Easterly; District of Columbia..131 11th Street N.E.

Second Year

Andrews, John Nevins; Maryland,

116 Willow Avenue, Takoma Park, D. C.

Bergeron, George Gernon; Massachusetts...1403 Rhode Island Avenue
 Brin, Carlos Nicolas; Panama.....1412 Massachusetts Avenue
 Catsva, Morris; Russia.....235 F Street N.E.
 Chadwick, Everell V.; Pennsylvania.....1734 Corcoran Street
 Chamberlin, Frank Tenny; District of Columbia.....1323 M Street

- Collins, Robert Hugh; Virginia.....Fort Myer Heights, Va.
 Conaway, Austin Ottis; West Virginia.....134 11th Street S.E.
 Coolidge, Leroy Elmer; Pennsylvania,
 43, Claiborne Apartment, 6th and H Streets
 Cousins, Sidney Charles; District of Columbia.....550 14th Street S.E.
 Craig, Ernest A.; Illinois.....43 The Claiborne
 Cushing, Eleanore Scholl; Illinois.....2003 H Street
 DeBeck, Calvin Morgan; Illinois.....1215 K Street
 Figueras, Jaime Julian; Porto Rico.....1223 K Street
 *Fitzhugh, Clark Seal; District of Columbia.....124 12th Street S.E.
 Folsom, John Eugene; District of Columbia.....515 F Street
 *Garnsey, Orace Betts; Massachusetts.....1314 I Street
 Gordon, Robert John; Wisconsin.....811 10th Street
 Grayson, Stewart Maxwell; Virginia.....Vienna, Va.
 Guilhempe, Nemorin; France.....Box 2201, Station G
 Haskell, Roy T.; District of Columbia.....808 New Jersey Avenue
 Heffernan, John Francis; Ohio.....1215 K Street
 Hirschhoff, Jr., Ernest A.; New Jersey.....1403 Rhode Island Avenue
 Huddleston, Jarrett Matthew; District of Columbia.....2504 Hall Place
 Ladd, John Morris; Virginia.....134 11th Street S.E.
 Lynch, Joseph Aloysius; New York.....1214 12th Street
 McCanna, Louis E.; New York.....1215 K Street
 Macon, Edward Bailey; District of Columbia.....1123 13th Street
 Phar.D., 1912, State College, Angola, Indiana.
 Norton, William Harrison; District of Columbia,
 Apartment 4, The Ashburn, 1300 Harvard Street
 Phar.D., 1912, George Washington University.
 Peters, David B.; Virginia.....Tuberculosis Hospital
 Phar.D., 1910, George Washington University.
 Powers, Richard Thomas; New York.....43 Claiborne Apartment
 Quirk, Jerome Thurston; Virginia.....1100 Vermont Avenue
 Reuter, Fritz A.; District of Columbia.....1337 Park Road
 Rice, Eugene Clarence, Jr.; District of Columbia.....4832 16th Street
 Rivera, Pedro A.; Porto Rico.....24 Grant Place
 Rivera, Rafael A.; Porto Rico.....24 Grant Place
 Rosenberg, Louis Charles; Connecticut.....936 K Street
 Ryan, Frank Kevan; New York.....1214 12th Street
 Simpson, Raymond Cornwell; District of Columbia,
 123 Maryland Avenue, N.E.
 Stachniewicz, Vincent Joseph; District of Columbia.....1530 30th Street
 Stratton, Ernest Kenneth; New Jersey.....3121 14th Street
 P.D., 1910, Philadelphia College of Pharmacy.
 Taylor, Sterling Price, Jr.; District of Columbia,
 1240 Pennsylvania Avenue, S.E.
 Thompson, Richard Knight; District of Columbia,
 484 Maryland Avenue, S.W.
 Thyson, Leo Cromwell; District of Columbia.....1366 Columbia Road
 Phar.D., 1912, George Washington University.

Tilton, Joel Adams, Jr.; District of Columbia.....	1520 29th Street
Walton, Robert Ralph; Washington.....	1123 13th Street
White, Paul A.; Michigan.....	37 V Street N.E.
S.B., 1908, Simpson College; Ph.B., 1908, Chicago University.	
Yarnall, Audra Hopkins; Pennsylvania.....	1734 Corcoran Street

Third Year

Atkinson, Francis Vernon; New York.....	23 Iowa Circle
Ball, William Edward; New York.....	1326 11th Street
Bingman, Carroll Edward; Pennsylvania.....	617 Morris Street N.E.
Blake, Benjamin Charles; Louisiana.....	1113 11th Street
Bost, Thomas Creasy; North Carolina.....	1002 11th Street
Bradley, Jeter Carroll; North Carolina.....	1002 11th Street
Carr, Earl B.; California.....	43 Claiborne Apartment
Collins, James H.; Maine.....	Washington Asylum Hospital
A.B., 1907, Bowdoin College.	
Dean, Floyd Chapin; New York.....	43 Claiborne Apartment
DeLuca, Horatio Roger; New Jersey.....	1002 11th Street
Donn, Frederick Y.; District of Columbia.....	1544 New Jersey Avenue
Phar.D., 1904, National College of Pharmacy; Ph.C., 1908, Medical-Chirurgical College of Pharmacy.	
Field, Fay X.; Pennsylvania.....	Casualty Hospital
Gentzkow, Cleon Joseph; Minnesota.....	Garfield Hospital
Green, Eric Steel; New York.....	1009 13th Street
Kenner, Albert Walton; District of Columbia.....	1711 17th Street
Phar.D., 1910, George Washington University.	
Lippitt, Samuel Herman; New York.....	
Room 507, Union Savings Bank Building	
McCray, Arthur Howard; Ohio.....	1100 Vermont Avenue
S.B., 1909, Ohio State University; D.V.M., 1911, George Washington University.	
Moreno, Joseph DeRoulhac; Florida.....	Emergency Hospital
Moser, Harry Newton; Pennsylvania.....	1734 Corcoran Street
Paaser, William F.; Minnesota.....	Children's Hospital
Ph.C., 1904, University of Minnesota.	
Pullen, George W., Jr.; New York.....	1214 12th Street
Putski, Paul Stirling; District of Columbia.....	1862 California Street
Rowlson, Ira Alonzo; New York.....	1214 12th Street
Shilen, Joseph; New York.....	1200 L Street
Williams, V. Blackstone; District of Columbia.....	1605 30th Street
Woodward, Roy B.; New York.....	Sibley Hospital
Zeagler, Allen Grover; Louisiana.....	1214 12th Street

Fourth Year

Aston, Melville Joseph; Pennsylvania.....	1909 G Street
Barger, Gervase James P.; Nebraska.....	2224 Decatur Place
Bloom, Rudolph; Virginia.....	1105 K Street

Brown, Edward Allan, 2nd; New York.....	1105 K Street
Chipman, Henry Edgar Harrison; Canada.....	1808 I Street
Eisenberg, Joseph Johns, Wisconsin.....	1124 12th Street
Ph.G., 1910, Marquette University.	
English, Leonard Harrison; New York.....	1214 12th Street
M.D., 1913, George Washington University.	
English, Merton Alden; District of Columbia.....	1758 Park Road
Hardstaff, Roy John; Australia.....	1322 Vermont Avenue
Harrison, Forrest Martin; Virginia.....	818 A Street S.E.
Jones, Floyd Burton; Canada.....	Apartment 43, The Claiborne
Jova, Andrew Martin; Cuba.....	811 10th Street
Lonsdorf, Jacob John, Jr.; Pennsylvania.....	1909 G Street
Miller, Thomas, Jr.; District of Columbia.....	1616 7th Street
Shea, George Marvin Waite; Connecticut.....	3210 19th Street
Sherwood, Moriss Waldmar; Wisconsin.....	1124 12th Street
Supplee, Eugene Deyerle; Virginia.....	311 A Street N.E.
Sze, Tsannyoen Philip; China.....	2750 14th Street
Taylor, Chase; District of Columbia.....	1433 Belmont Street
VanOrnam, Vilas George; New York.....	1322 Vermont Avenue

SPECIAL

Bogan, Isabel-Katherine; District of Columbia....	246 8th Street N.E.
M.D., 1910, Woman's Medical College of Pennsylvania.	
Holland, John D.; Maryland.....	645 5th Street N.E.
Law, Henry Gordon; District of Columbia.....	1519 E Street S.E.
Nelson, Nesmith P.; Minnesota.....	23 Rhode Island Avenue
M.D., 1910, George Washington University.	

SUMMARY

First year.....	76
Second year.....	48
Third year.....	27
Fourth year.....	20
Special.....	4
	175

DENTAL SCHOOL

CANDIDATES FOR THE DEGREE OF DOCTOR OF DENTAL SURGERY

First Year

*Adams, Albert Chester; Maryland.....	College Park, Md.
Aspinall, Charles Pindall; West Virginia.....	1418 Meridian Street
*Brill, Nathan P.; District of Columbia.....	1457 Corcoran Street
*Bryan, Arthur Melven; District of Columbia.....	Naval Hospital
Burgess, Eric Hjalmar; Rhode Island.....	828 12th Street
*Burke, James; England.....	211 1st Street N.E.
†Butkiewicz, Eugenia; District of Columbia.....	312 G Street
Butkiewicz, John K.; District of Columbia.....	312 G Street N.E.

*Carter, Frank A.; District of Columbia	1310 L Street
Claytor, Spry Owen; Ohio	1504 Columbia Road
Cohen, Irwin Bertram; District of Columbia	1812 9th Street
Cohen, Maurice Harvey; Alabama	1812 9th Street
Cole, John Burns; Missouri	1615 Swan Street
Davis, Bernard M.; Maryland	3019 O Street
Diehl, Harry Oliver; Pennsylvania	48 H Street N.E.
Evansha, John Frank; Pennsylvania	1125 14th Street
Frazier, George Mortimer; District of Columbia,	Nichols Avenue, Congress Heights
Gilman, Harry K.; Hawaii	300 2d Street N.E.
*Greenberg, Joseph; New York	511 K Street N.E.
Griffith, Olin Newton; District of Columbia	509 11th Street
†Heald, Alfred Daniel; Massachusetts	132 East Capitol Street
Herring, Paul Supplee; Maryland	Hyattsville, Md.
Hise, Harley; California	314 East Capitol Street
Hodges, Bower; District of Columbia	306 Randolph Place N.E.
*Johnston, Patterson Bayne; Virginia	314 Indiana Avenue
Johnston, Paul Edward; Virginia	Leesburg, Va.
*Jones, Robert J.; Wisconsin	2 6th Street N.E.
*Keroes, William; District of Columbia	917 G Street
McCullough, Robert Campbell; Illinois	1751 Columbia Road
Moore, Clarence Robert; Virginia	1418 Meridian Street
Morgan, John Edward; District of Columbia	1334 G Street S.E.
Porter, Frank Gamewell; Iowa	620 Maryland Avenue N.E.
Shadrick, John H.; Maryland	1115 K Street
Smith, Walter Scott; Virginia	R. F. D. No. 2, Alexandria, Va.
Stein, Edwin Leroy; Washington	222 3d Street S.E.
Stutzman, William Ernest; District of Columbia	3533 Warder Street
Sweet, William Manly; District of Columbia	41 R Street N.E.
Willard, Albert William; Maine	706 20th Street
Wilson, Myron Webster; District of Columbia	58 M Street
Wolf, May; District of Columbia	235 W Street

Second Year

Brower, Delmer Davis; Virginia	704 K Street N.E.
Browne, Wilmer Mrs.; New York	1621 13th Street
Carr, Josiah Lawrence; Texas	1313 14th Street
Dimas, Blanca; Porto Rico	817 12th Street
Frazier, Griffin Guy; District of Columbia	11 Grant Place
Friedman, Joseph Altshuler; District of Columbia	1416 9th Street
Hall, Arthur Ruebun; District of Columbia	1300 Maryland Avenue N.E.
Hogan, Arnold Wilbur; District of Columbia	933 G Street
Lewis, Ellis Smith; Virginia	Box 21, Ballston, Va.
McNally, Benjamin Raymond; Rhode Island	1125 14th Street
Minkin, Golda; District of Columbia	412 P Street
Palkin, Joseph Ralph; Connecticut	1215 I Street

Sandberg, Adolph; District of Columbia.....	1402 14th Street
Sampsell, Thomas L.; District of Columbia.....	1125 14th Street
Schmidt, Carl Heisler; Massachusetts.....	1106 Vermont Avenue
Slack, Edward Markorn; District of Columbia.....	417 6th Street
Thompson, James Gray; District of Columbia.....	1207 East Capitol Street
Thompson, Richard K.; District of Columbia.....	484 Maryland Avenue S.W.
Tilley, Edwin Ross; District of Columbia.....	3510 10th Street
Wagner, Lawrence Reginald; New York.....	The Lurgan
White, Douglas Alfred; Massachusetts.....	1913 Pennsylvania Avenue
Wresinski, Leo J.; Illinois.....	2313 Washington Circle

Third Year

Achsan, Samuel Charles; New York.....	333 C Street
Beebe, Ira Dow; Connecticut.....	1020 9th Street
Bonseigneur, Camille Robespierre; France.....	411 11th Street S.E.
Callar, Donald; Pennsylvania.....	828 12th Street
Danemann, Samuel; Russia.....	338 C Street
Fansler, Orville Newton; Nebraska.....	Bethesda, Md.
Forbes, William Edward; New York.....	1861 Newton Street
Ginsberg, Samuel Benjamin; District of Columbia.....	200 5th Street S.E.
Golden, Edward Earl; Wyoming.....	1720 Newton Street
Guilhempe, Nemorin; France.....	2201 Station G
Hagen, Walter Lowell; New York.....	501 2d Street N.E.
Haywood, Markley Roland; New York.....	1221 East Capitol Street
Mead, Sterling Vernon; Kansas.....	1101 Monroe Street
Pietrosiak, Joseph L.; Maryland.....	928 New York Avenue
Prendergast, Benjamin Frank; District of Columbia.....	465 G Street
Roberts, Jasper Newton; Tennessee.....	608 13th Street
*Smith, Jesse K.; Virginia.....	The Lenmass, Apartment 301
Walls, Harry Ernest; Georgia.....	1234 I Street

SUMMARY

First year.....	40
Second year.....	22
Third year.....	18
	80

NATIONAL COLLEGE OF PHARMACY

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHARMACY

Freshmen

Blue, Norman R.; District of Columbia.....	1855 Lamont Street
Colahan, John T.; Maryland.....	Rochville, Md.
B.T., 1902, St. Mary's Seminary, Baltimore, Maryland.	
Davis, George A.; District of Columbia.....	Kensington, Md.
Davis, Louie G.; Virginia.....	Alexandria, Va.
Davis, Paul R.; Pennsylvania.....	11½ Grant Place

Dudley, James W.; District of Columbia.....	Takoma, D. C.
Fegan, Francis E.; District of Columbia.....	493 H Street S.W.
Foster, Allen, Jr.; District of Columbia.....	1505 Rosedale Street N.E.
Frailey, William F.; Maryland.....	The Sherman
Gaines, John Marshall; Virginia.....	114 N. Alfred Street, Alexandria, Va.
Hemp, Harry; Virginia.....	Cherrydale, Va.
Holmes, Kate S.; Ohio.....	1337 Kenyon Street
Johnson, P. Marshall; Virginia.....	120 S. Henry Street, Alexandria, Va.
Kiefer, Ralph S.; Pennsylvania.....	6907 6th Street
Leon, Manuel B.; Cuba.....	318 3d Street
McArthur, John E.; Kansas.....	19th and Benning Road N.E.
McKennon, Emory F.; Ohio.....	1330 North Capitol Street
Minnick, George V.; Pennsylvania.....	300 11th Street S.E.
Payewski, Peter J.; Russia.....	603 I Street
Painter, Archie C.; District of Columbia.....	501 6th Street N.E.
Paylor, Russel S.; North Carolina.....	803 A Street S.E.
Picot, Seaboro C.; North Carolina.....	946 Virginia Avenue S.W.
Stewart, William A. T.; Idaho.....	1407 Rhode Island Avenue

Juniors

Adams, William S.; District of Columbia.....	713 16th Street N.E.
Arnold, Howard L.; Virginia.....	222 N. Patrick Street, Alexandria, Va.
Biggins, James J.; District of Columbia.....	1328 31st Street
Borland, Anna May; Michigan.....	The New Berne
Brown, Andrew J.; North Carolina.....	619 East Capitol Street
A.B., 1912, Roanoke College.	
Donahue, T. Francis; District of Columbia.....	3345 P Street
Goldstein, Morris G.; Russia.....	617 P Street
Kenner, Harvey R.; District of Columbia.....	1711 17th Street
Kerfoot, Garland S.; Virginia.....	60 W Street
Lawson, James H.; North Carolina.....	815 C Street N.E.
Lear, Israel; Russia.....	1253 9th Street
McCambridge, Joseph A.; District of Columbia.....	2144 F Street
Malone, William W.; District of Columbia.....	701 8th Street S.E.
Minkin, Abraham J.; Russia.....	1501 1st Street
Modena, Ervin; Virginia.....	703 15th Street
Norris, Earl M.; Maryland.....	130 Randolph Street
Tibbets, Lyman B.; District of Columbia.....	1636 17th Street
Vestal, Paul W.; North Carolina.....	7th and Massachusetts Avenue
Wedding, William C.; District of Columbia.....	18 6th Street N.E.
Williams, Clyde G.; Pennsylvania.....	1014 Pennsylvania Avenue S.E.

Seniors

Biggs, John Gregory; District of Columbia.....	621 Irving Street
Blackistone, Beulah Lanette; California.....	1538 8th Street
Burgher, Vincent Alois; New Jersey.....	1304 Park Road
Carroll, John Mortimer; District of Columbia.....	1430 V Street

Crisp, Thomas Benton Jr.; District of Columbia.....	638 E Street N.E.
Day, Harold Lewis; District of Columbia.....	1241 Euclid Street
Donohoe, Walter Joseph Andrew; New York.....	1808 1st Street
Dudley, Frederick Edwin Jr.; District of Columbia..	Takoma Park, D. C.
Fink, James Albert; District of Columbia.....	1826 15th Street
Hall, Earle Richardson; Iowa.....	923 Rhode Island Avenue
Heller, Theodore John; District of Columbia.....	740 7th Street S.E.
Kimball, Clarence Victor; North Carolina.....	1850 Park Road
Kloczewski, Albert Marian; District of Columbia.....	701 5th Street
Koss, Edward Flavell; District of Columbia.....	1814 Calvert Street
Lantz, Samuel Aaron; Virginia.....	520 3d Street
Moose, George Kelley; North Carolina.....	1753 Kilbourne Street
Murphy, John Allen; Pennsylvania.....	225 East Capitol Street
LL.B., 1909, Georgetown University.	
Ros, Carlos Manuel; Panama.....	1320 12th Street
Rosenberg, Louis Charles; Connecticut.....	931 New York Avenue
Stephens, William Andrew; Kentucky.....	1811 Kalorama Road
Umhau, John William; District of Columbia.....	737 10th Street S.E.
Waldman, Jacob; Russia.....	232 Tennessee Avenue N.E.
Weil, Albert; Virginia.....	Alexandria, Va.

SPECIAL

Doran, James M; North Dakota.....	2014 11th Street
S.B., University of Minnesota.	
Fitzgerald, F. F.; District of Columbia.....	15th and H Streets
Linder, William Vanarsdale; Indiana.....	Bureau of Internal Revenue
A.M., 1907, Ohio State University.	
Miller, Henry M.; Kentucky.....	25th and E Streets
S.B., 1909, Hanover College.	

SUMMARY

Freshman.....	23
Junior.....	20
Senior.....	23
Special.....	4
	70

COLLEGE OF VETERINARY MEDICINE

CANDIDATES FOR THE DEGREE OF DOCTOR OF VETERINARY MEDICINE

Freshmen

Glover, George Stennett; England.....	634 Pennsylvania Avenue N.E.
Horbett, John Edward; New York.....	933 M Street
Lawych, Louis; New York.....	531 Gresham Place
Lewis, Ralph Henry; District of Columbia.....	Riverdale, Md.
Nelson, Byron C.; Wisconsin.....	2240 Cathedral Avenue
Patterson, Jr., James; Virginia.....	1010 Cameron Street, Alexandria, Va.

Savage, Howard Mayo; Illinois.....	1117 Vermont Avenue
Woodson, Charles Edward; Virginia.....	3020 Dent Place
Wright, William H.; Ohio.....	933 M Street

Juniors

Biondi, Harry J.; District of Columbia.....	508 7th Street S.E.
Brown, Herbert H.; Missouri.....	The Alabama
Buffin, Kenneth E.; Maryland.....	Chevy Chase Lake, Md.
Grubb, William Hugh; Virginia.....	1412 Belmont Street
Lynn, William M.; North Carolina.....	201 I Street
Rippon, Charles W.; Pennsylvania.....	1412 Belmont Street
Sipos, Andrew J.; Virginia.....	2115 14th Street
Skippon, Charles D.; Pennsylvania.....	208 1st Street
Thigpen, Claude; Alabama.....	1215 Euclid Street
Wilcox, Floyd P.; New York.....	1011 M Street

Seniors

Cashell, Irving Magruder; Maryland.....	2907 Sherman Avenue
Chamberlain, Joseph F.; District of Columbia.....	31 R Street N.E.
Chapin, Judson Kerfoot; Virginia.....	1870 Monroe Street
Colflesh, Joseph Harmon; Pennsylvania.....	1412 Vermont Street
Cook, Parley Merle; Ohio.....	1712 15th Street
Craig, Norman C.; Pennsylvania.....	1412 Belmont Street
Crawford, Arthur Burdeck; New York.....	1712 15th Street
Essex, John James; Maryland.....	744 Morton Street
Forbes, Samuel Dexter; Virginia.....	Alexandria, Va.
Gantz, Claudus Roy; District of Columbia.....	1245 G Street N.E.
Getz, Harry Rohrer; Pennsylvania.....	1712 15th Street
Grenfell, Frederick Aloysius; District of Columbia.....	1916 H Street
Hayes, Jesse; New Jersey.....	921 King Street, Alexandria, Va.
Kelser, Raymond Alexander; District of Columbia.....	231 14th Street N.E.
Miller, Howard Sydnor; Virginia.....	New Varnum Hotel
Munro, Joseph Briggs; Rhode Island.....	2707 11th Street
Reynolds, François Hûe Kári; Wisconsin.....	1608 Q Street
Shillinger, Jacob Edward; Maryland.....	Hyattsville, Md.
Trigg, William Stark; Virginia.....	306 Seaton Place N.E.
Whitney, Clifford Caswell; Massachusetts.....	1128 B Street N.E.

SUMMARY

Freshman.....	9
Junior.....	10
Senior.....	20
	<hr/>
	39

GEOGRAPHICAL DISTRIBUTION

Alabama.....	9	Oklahoma.....	8
Arizona.....	2	Oregon.....	1
Arkansas.....	7	Pennsylvania.....	81
California.....	10	Rhode Island.....	7
Colorado.....	10	South Carolina.....	8
Connecticut.....	16	South Dakota.....	7
Delaware.....	3	Tennessee.....	15
District of Columbia.....	698	Texas.....	26
Florida.....	3	Utah.....	11
Georgia.....	6	Vermont.....	3
Idaho.....	6	Virginia.....	98
Illinois.....	38	Washington.....	13
Indiana.....	15	West Virginia.....	12
Iowa.....	25	Wisconsin.....	22
Kansas.....	7	Wyoming.....	3
Kentucky.....	13	Australia.....	1
Louisiana.....	5	Canada.....	3
Maine.....	12	China.....	4
Maryland.....	70	Colombia.....	1
Massachusetts.....	37	Cuba.....	2
Michigan.....	14	England.....	2
Minnesota.....	13	France.....	2
Mississippi.....	4	Germany.....	3
Missouri.....	17	Hawaii.....	3
Montana.....	6	Holland.....	2
Nebraska.....	12	Japan.....	1
Nevada.....	1	Mexico.....	2
New Hampshire.....	3	Panama.....	2
New Jersey.....	17	Philippine Islands.....	1
New Mexico.....	2	Porto Rico.....	6
New York.....	111	Russia.....	11
North Carolina.....	21	Sweden.....	2
North Dakota.....	5		
Ohio.....	30		
			1611

GENERAL SUMMARY

TEACHING STAFF

In many instances members of the Teaching Staff give only part time to the University:

Professors.....	71
Associate Professors.....	13
Associates.....	12
Assistant Professors.....	16
Lecturers and Instructors.....	59
Assistants and Demonstrators.....	18
Total.....	189

STUDENTS REGISTERED IN THE UNIVERSITY DURING 1913-14

Department of Arts and Sciences

School of Graduate Studies.....	92	
Columbian College.....	484	
College of Engineering.....	204	
Teachers College.....	130	
	911	
Duplicates.....	7	904

Professional Department

Law School.....	355	
Medical School.....	175	
Dental School.....	80	
	610	
Duplicates.....	2	608

Associated Colleges

National College of Pharmacy.....	70	
College of Veterinary Medicine.....	39	109
		1621
Duplicates.....		10
Total Registrations for the Year.....		1611

DEGREES CONFERRED

AT COMMENCEMENT, 1913

HONORARY

Doctor of Laws

Alexander Graham Bell

Doctor of Humane Letters

George Franklin Bowerman

Master of Arts

Oscar Phelps Austin

IN COURSE

Doctor of Philosophy

Elmer Eugene Marshall Maryland
A.B., 1889, Ohio Wesleyan University; S.T.B., 1894, Boston University.

Master of Arts

Katherine Harper Bevard District of Columbia
A.B. and Teacher's Diploma, 1911, George Washington University. (Master's Diploma in Education)
May Paul Bradshaw District of Columbia
A.B., 1909, George Washington University.
Walter Edgar Hancock Texas
A.B., 1912, George Washington University.
Joseph Douglas Hood Illinois
A.B., 1910, University of Illinois.
Neil Merton Judd Utah
A.B., 1911, University of Utah.
John Joseph Lenney Virginia
A.B., 1913, George Washington University.
Margaret Bell Merrill Vermont
A.B., 1899, Wellesley College.
Katharine Mitchell Newbold Maryland
A.B., 1912, George Washington University.

Master of Science

Fitzhugh Green.....	Missouri
Graduate, 1909, United States Naval Academy.	
Edwin Henry Ingersoll.....	District of Columbia
S.B., 1911, George Washington University.	
Colin Mackenzie Mackall.....	Virginia
A.B., 1909; B.S. in Chemistry, 1910, University of Virginia.	
Wendell Clay Mansfield.....	New York
S.B., 1908, Syracuse University.	
Samuel Palkin.....	District of Columbia
Ph.B., 1910, Yale University.	

Civil Engineer

Robert John Potbury.....	District of Columbia
B.S. in C.E., 1912, George Washington University	
Augustin Mitchell Prentiss.....	District of Columbia
B.S. in C.E., 1911, George Washington University	
Joseph Addison Preston Scott, Jr.,.....	District of Columbia
B.S. in C.E., 1912, George Washington University	
Frank Veihmeyer.....	District of Columbia
B.S. in C.E., 1912, George Washington University	

Electrical Engineer

Henry Frank Wiegand.....	District of Columbia
B.S. in E.E., 1911, George Washington University.	

Bachelor of Arts

Charline Elizabeth Appleby.....	Indiana
(With distinction)	
Henry Godfrey Avers.....	Ohio
James Earl Black.....	New York
John Alexander Bowman.....	District of Columbia
Alice Burritt.....	District of Columbia
Grace Ella Church.....	Virginia
Minnie Carter Davis.....	Tennessee
Anne Elizabeth Draper.....	New York
L.L.B., 1908, Washington College of Law; M.P.L., 1911, George Washington University	
Frank Blair Hanson.....	District of Columbia
Ralph Hospital.....	District of Columbia
Carlos Cranford Houghton.....	District of Columbia
Edwin Eugene Judd.....	District of Columbia
Eva Phelps Kelley.....	Maryland
Mary Katharine Kerby.....	District of Columbia

Rex Emir Kinsell.....	Iowa
Clarence Andrew Knudtson.....	Wisconsin
Alfred Briscoe Lindsay.....	District of Columbia
Lulu Mignonne McCabe.....	Kansas
(With distinction)	
Louis Archer Maxson.....	Maryland
(With distinction)	
Milton Donaldson Moore.....	South Carolina
Charles Hollister Potter.....	North Carolina
Arthur Huber Redfield.....	District of Columbia
(With distinction)	
Leila Fordham Scott.....	District of Columbia
Clara Stoll.....	District of Columbia
Olivia Alexander Taylor.....	Virginia
Hilda Louise Ulrickson.....	District of Columbia
Carl Maria Johann von Zielinski.....	Virginia

Bachelor of Arts and Teacher's Diploma

Jessie DuBois Fant.....	District of Columbia
(With distinction)	
Daisie Ione Huff.....	District of Columbia
Charles Albert Johnson.....	District of Columbia
John Very Macdonald.....	Nova Scotia
Ella May Monk.....	New York
Kate Sorrell Outwater.....	District of Columbia
Harriet Underwood.....	District of Columbia
Mary Josephine White.....	Maryland

Bachelor of Science in Chemistry

Isaac Maurice Bortman.....	Pennsylvania
Henry Albert Lepper.....	District of Columbia
Louis Lodholz.....	Pennsylvania
Morris A. Pozen.....	District of Columbia
(With distinction)	
James Norman Taylor.....	Delaware
Arthur Stockton Thatcher.....	Pennsylvania

Bachelor of Science in Civil Engineering

Edwin Day Burchard.....	District of Columbia
Donald Langley Dutton.....	District of Columbia
John Rochford Dwyer.....	District of Columbia
Howard Wilkinson Hodgkins.....	District of Columbia
(With distinction)	
Theodore Tilton Kirk.....	Kentucky
Malcolm Gordon Slarrow.....	District of Columbia

Bachelor of Science in Electrical Engineering

Arthur Hervey Brame.....	District of Columbia
Omar Bailey Buchanan.....	District of Columbia
(With distinction)	
Edwin Summer Hoffman.....	Pennsylvania
William Michael Leonard.....	Pennsylvania
(With distinction)	
Francis Edwin Marvin.....	New York

Bachelor of Science in Mechanical Engineering

Henry Hornor Snelling.....	Virginia
(With distinction)	

Master of Diplomacy

Leonard Atkins Merritt.....	Minnesota
Louis Roy Zapf.....	Tennessee

Master of Laws

Horace Greeley Macfarland.....	District of Columbia
Graduate, 1891, United States Naval Academy; LL.B., 1912,	
George Washington University	

Bachelor of Laws

Frank Augustus Barlow.....	Minnesota
A.B., 1910, University of Minnesota	
Frank Albert Bower.....	New York
M.E., 1910, Cornell University	
John St. Clair Brookes, Jr.....	District of Columbia
A.B., 1907; A.M., 1910, George Washington University; (With	
distinction).	
George Burton Buck.....	Maryland
Victor Cobb.....	Virginia
S.B., 1908, Harvard University; (With distinction).	
Alfred C. Cordon.....	Idaho
Edward Celestine Coumbe.....	Washington
Robert Todd Daniel.....	District of Columbia
(With distinction)	
Myron Mathews Davis.....	Maine
S.B., 1909, Massachusetts Institute of Technology.	
Arthur Hannum Deibert.....	District of Columbia
William Ira Denning.....	Georgia
Clarence Bigelow Des Jardins.....	Michigan
A.B., 1909, Kalamazoo College.	
Richard Crosby De Wolf.....	Massachusetts

John Astor Diener.....	Indiana
B.S. in E.E., 1910, Purdue University.	
William John Dow.....	Missouri
Harry E. Dunham.....	New York
E.E., 1906, Syracuse University.	
J. Ralph Fehr.....	Illinois
Peter Royal Feldman.....	Wisconsin
David Edward Finley, Jr.....	South Carolina
A.B., 1910, University of South Carolina.	
Charles Hugh Gibbon.....	Wisconsin
Edwin Roy Jackson.....	Iowa
S.B., 1904, State University of Iowa.	
Frank Rumer Jeffrey.....	Washington
Raphael S. Klein.....	Colorado
Morris Willson Knowlton.....	Maine
(With distinction)	
Frederick Eugene Kunkel.....	Pennsylvania
William Ludwig Larson.....	South Dakota
I. Burt Lazarus.....	Massachusetts
Lawrence A. Gale Miller.....	Massachusetts
A.B., 1908, Harvard University; (With distinction).	
Maurice Malcolm Moore.....	Michigan
William Lester Morrison.....	Massachusetts
Ralph Munden.....	Pennsylvania
M.E., 1906, Cornell University.	
Charles F. Randolph Ogilby, Jr.....	District of Columbia
Arnold Clarence Otto.....	Wisconsin
A.B., 1911, Lawrence College; A.B., 1911, George Washington University.	
Roscoe Milliken Packard.....	District of Columbia
A.B., 1899; A.M., 1900, Western Reserve University; (With distinction).	
William Waterman Paddock.....	Iowa
Charles Kaufman Phillips.....	New Jersey
A.B., 1909, Princeton University.	
Neil De Forest Preston.....	New York
M.E., 1908, Cornell University.	
Harry Fox Roller.....	Kansas
A.B., 1906, University of Kansas.	
Breckenridge Cabell Rust.....	District of Columbia
Frank Seymour Smith.....	District of Columbia
A.B., 1910, Wesleyan University; (With distinction).	
George Walter Smith.....	Pennsylvania
Burr Shearer Stottle.....	Missouri
(With distinction)	
Charles Alonzo Straw, Jr.....	Massachusetts
A.B., 1901, Harvard University.	

William Strong, Jr.	District of Columbia
Ralph Richard Stuart	Iowa
Wilson Lewis Townsend	Maryland
Clarence Stevens Walker	Massachusetts
A.B., 1904, Harvard University.	
Joseph Henry Waters	District of Columbia
B.S. in E.E., 1910, George Washington University.	
Paul Herbert Watson	Kansas
Hubert Shadrach White	Virginia
Irving Thomas Wilson	Maryland
Robert Mathias Zacharias	Pennsylvania
A.B., 1907, Franklin and Marshall College.	

Bachelor of Law

Theodore Henry Eickhoff	Indiana
B.S. in E.E., 1908, Purdue University.	

Doctor of Medicine

Sewall Munson Corbett	Virginia
Richard Laurenco De Saussure	South Carolina
Leonard Harrison English	Pennsylvania
Roy Macleay Fortier	California
Josiah Baker Henneberger	Maryland
(With distinction)	
Walter Harold Lott	District of Columbia
Louis John Regan	New York
Joseph Duerson Stout	Virginia
A.B., 1910, George Washington University; (With distinction).	
May Turner Stout	District of Columbia

Doctor of Dental Surgery

Edward Crawford Alley	Kentucky
Elmer E. Briggs	Pennsylvania
Marie G. Brodsky	Russia
Claude Durfee	Illinois
Nathan Eisenstein	Massachusetts
John S. Hardester	District of Columbia
Carl Burdette Maphis	Virginia
John Preston Marstella	Illinois
Charles Walter Rich	Pennsylvania
Walter Brittin Silliman	Pennsylvania
Henry Merle Spillan	New York
George Elwood White	Massachusetts
Edward Williams	Massachusetts

Doctor of Pharmacy

Charles Willis Barker.....	Maryland
Ralph Van Sickler Chamblin.....	Virginia
Samuel James Hohberger.....	Maryland
Raymond D. Kinsey.....	District of Columbia
David Lander Maxwell.....	Tennessee
Anna E. Mix.....	Maryland
Bert Alexander Smyser.....	Pennsylvania
Edwin G. Swann.....	Maryland
Irving Alexander Tennyson.....	Virginia
Lawrence B. Whitley.....	North Carolina
William Henry Whittlesey, Jr.....	Ohio

Doctor of Veterinary Medicine

Jacob E. Behney.....	Pennsylvania
George Henry Gillette.....	Kansas
Ernest George Hargett.....	North Carolina
William Anson Hooker.....	Massachusetts
Fred William Lambert.....	Maryland
Edward Joseph McLaughlin.....	Illinois
Julius Edward Morecock.....	Georgia
James Buchanan Nicol.....	Virginia
Clarence Reuben Potteiger.....	Pennsylvania

AT FALL CONVOCATION, 1913

IN COURSE

Doctor of Philosophy

Thomas Latimer Kibler.....	Virginia
A.B., 1904, Randolph Macon College; A.M., 1908, George Washington University.	

Master of Science

Peter Valaer, Jr.....	North Carolina
S.B., 1906, North Carolina College of Agriculture and Mechanic Arts.	

Bachelor of Arts

Meta Schmidt.....	District of Columbia
-------------------	----------------------

Bachelor of Arts and Teacher's Diploma

Cora Amelia Ossire.....	District of Columbia
-------------------------	----------------------

Bachelor of Laws

Robert Bacon Krogstad.....	District of Columbia
----------------------------	----------------------

AT WINTER CONVOCATION, 1914

IN COURSE

Doctor of Philosophy

Hartley Harrad Thompson Jackson.....District of Columbia
A.B., 1904, Milton College; A.M., 1909, University of Wisconsin.

Master of Science

Olaf Mandt Hustvedt.....Iowa
Graduate, 1909, United States Naval Academy.

Bachelor of Arts and Teacher's Diploma

Florence Virginia Morrison Corson.....Maryland

Master of Laws

Arthur John Kaue.....Ohio
LL.B., 1913, George Washington University.

Bachelor of Laws

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BEEKMAN, D. D., [34].....	New District National Bank Building
BEESON, L. W., [179].....	664 Massachusetts Avenue
BENTON, R. W., [37].....	462 O Street
BERNHARD, J. W., [37].....	710 14th Street
BEYER, H. G., [28].....	The Marlborough
BIBB, A. B., [33].....	1721 21st Street
BOLTON, B. R., [37].....	3104 P Street
BORDEN, D. L., [37].....	Columbia Hospital
BORDEN, W. C., [33].....	Tracy Place
BOVEE, J. W., [32].....	The Rochambeau
BOWEN, W. S., [34].....	1339 Connecticut Avenue
BRADBURY, H. M., [179].....	1304 Park Road
BRADBURY, W. H., [179].....	1304 Park Road
BRANDENBURG, E. C., [33].....	344 D Street
BRIDE, W. W., [184].....	2264 Cathedral Avenue
BRIGHAM, G. R., [37].....	Smithsonian Institution
BRIGGS, J. R., [34].....	1628 K Street
BROWN, B., [36].....	806 17th Street
BROWNE, A. B., [28].....	1855 Wyoming Avenue
BUCK, J. M., [184].....	933 K Street
BUCKINGHAM, D. E., [184].....	2113 14th Street
BUHRMAN, A. G., [36].....	Clerk's Office, City Hall
BUTLER, H. K., [179].....	229 9th Street S.E.
BUTLER, W. K., [33].....	1207 M Street

- CABELL, J. M., [34].....1730 M Street
 CALL, A. D., [37].....1820 Newton Street
 CAMPBELL, C. B., [28].....17th Street and Park Road
 CARMICHAEL, R. B., [32].....818 17th Street
 CARR, R. J., [184].....2113 14th Street
 CARROLL, M., [33].....3440 34th Place, Cleveland Park
 CERVONN, F. M., [137].....1335 H Street
 CHIPMAN, C. N., [36].....606 6th Street S.W.
 CHURCH, M., [32].....1608 20th Street
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 CLAYTOR, T. A., [32].....1826 R Street
 CLEPHANE, W. C., [33].....Chevy Chase, Md.
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 COHEN, L., [37].....1855 Calvert Street
 CONKLIN, C. B., [35].....1342 R Street
 CONSTANTINI, C. L., [36].....21 8th Street N.E.
 COPELAND, E. P., [34].....The Rockingham
 COPPING, J. B., [137].....1335 H Street
 CRAIG, H. K., [35].....1224 I Street
 CRANE, A. B., [34].....1424 K Street
 CULLOM, E., [37].....1433 Rhode Island Avenue
 CURTIS, H. L., [37].....U. S. Bureau of Standards

 DAVIS, C. L., [34].....The Fulford
 DAVIS, H. C., [28].....1006 Massachusetts Avenue
 DEFARGES, J. R., [34].....The Laclede Apartment House
 DONNALLY, H. H., [35].....1612 I Street
 DULANY, H. R., [184].....1333 F Street
 DUNSTAN, E. V., [34].....3616 Newark Street
 DYE, H. S., [36].....1327 L Street N.W.

 EARNEST, J. P., [33].....2123 N Street
 EASTERDAY, H. C., [179].....700 New Jersey Avenue N.W.
 EISENBERG, A. A., [184].....1206 N Street N.W.
 ELLIOTT, H. R., [35].....The Farragut
 EUSTIS, W. C., [184].....1611 H Street
 EVANSHA, J. F., [37].....1125 14th Street

 FERSON, M. L., [35].....Argyle Apartment House
 FETTER, H. H., [184].....3013 Dumbarton Avenue
 FILLEBROWN, J. P., [137].....George Washington University Hospital
 FLATHER, W. J., [28].....2033 R Street
 FLEMER, L., [179].....701 Maryland Avenue N.E.
 FLOYD, H. B., [179].....1736 U Street, N.W.
 FORTIER, R. M., [137].....2310 19th Street
 FOWLE, F. E., [36].....Smithsonian Institution

FRANKLAND, W. A., [35].....	Champlain Apartment House
FRANKLIN, E. T. M., [36].....	1315 19th Street
FRANZ, S. I., [33].....	Government Hospital for Insane
FRASE, E., [34].....	1467 Irving Street
FRASER, W. W., [37].....	1404 Perry Street N.W.
FRENCH, W. J., [36].....	1634 S Street N.W.
FULLER, H. G., [36].....	The Farragut
GARNETT, A. Y. P., [36].....	1214 18th Street N.W.
GILL, T. N., [32].....	Smithsonian Institution
GLASCOCK, M. W., [137].....	George Washington University Hospital
GLUECK, B., [37].....	Government Hospital for Insane
GORDON, H. H., [36].....	1755 Lamont Street
GORDON, J. H., [28].....	412 5th Street
GREGORY, C. N., [34].....	2139 Wyoming Avenue
GROSS, C. E., [179].....	14th Street and Park Road
GRUBB, V. M., [184].....	2320 Ontario Road
HAGNER, F. R., [33].....	The Farragut
HALL, A., JR., [33].....	Naval Observatory
HALL, C. L., [137].....	George Washington University Hospital
HALL, M. C., [184].....	2113 14th Street
HARRINGTON, G. T., [37].....	612 Randolph Street
HARRIS, A. L., [35].....	1505 Lamont Street
HARSCH, E., [37].....	1318 Maryland Avenue N.E.
HAZEN, H. H., [179].....	The Rochambeau
HENNING, G. N., [33].....	1728 20th Street
HENRY, F. C., [179].....	703 15th Street
HICKS, T., [184].....	621½ Park Road
HILL, E. A., [35].....	1221 K Street
HILTON, S. L., [179].....	2140 L Street
HODGKINS, H. G., [36].....	Naval Observatory
HODGKINS, H. L., [32].....	1830 T Street
HOLMES, C. W., [30].....	Rockville, Md.
HOOTON, P. R., [37].....	The Holland
HOPKINS, A., [28].....	1826 Massachusetts Avenue
HOPKINS, H. C., [165].....	The Rochambeau
HOPKINS, N. M., [35].....	2128 Bancroft Place
HOPKINS, T. S., [28].....	Hibbs Building
HORNADAY, F. A., [34].....	3509 14th Street
HOWARD, B. J., [179].....	1366 N. C. Avenue N.E.
HUGINS, F. A., [184].....	2113 14th Street
HULL, J. A. T., [184].....	1762 N Street N.W.
HUMPHREYS, W. J., [33].....	Cosmos Club
HUNTER, O. B., [34].....	2021 H Street
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 JACKSON, V. B., [36].....The Brunswick
 JAEGER, H. W., [37].....424 East Capitol Street
 JESSEE, W. B., [184].....2113 14th Street
 JOHN, W. C., [37].....Takoma Park, D. C.
 JONES, H. C., [35].....The Earlington
 KAIN, H. G., [37].....129 E Street
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 KARGER, T., [37].....2616 Cathedral Avenue
 KELLEY, J. T., [35].....1312 15th Street
 KEMBLE, A., [36].....The Cecil
 KERFOOT, W. T., [179].....69 W Street N.W.
 KERN, R. R., [35].....The Woodworth
 KERR, H. H., [36].....1742 N Street
 KILLINGER, W. C., [37].....Northeast Corner 13th and I Streets
 KING, A. F. A., [32].....1315 Massachusetts Avenue
 KING, W. B., [28].....728 17th Street
 LADD, J. M., [38].....134 11th Street S.E.
 LAGARDE, L. A., [33].....2624 Woodley Place
 LARNER, J. B., [28].....1709 19th Street
 LATIMER, J. W., [34].....1816 F Street
 LAWRENCE, W. F., [34].....1616 I Street
 LAWSON, H. W., [34].....1117 Vermont Avenue
 LAYTON, R. E., [37].....1311 Wisconsin Avenue
 LEECH, F., [35].....1372 Columbia Road
 LEPPER, H. A., [37].....1620 6th Street
 LEWIS, E. S., [37].....Box 21, Ballston, Va.
 LINDSEY, J. W., [137].....1808 Kilbourne Place N.W.
 LISNER, A., [28].....1723 Massachusetts Avenue
 LITTLEHALES, G. W., [34].....2132 LeRoy Place
 LOCHBOEHLER, H. A., [184].....634 Pennsylvania Avenue S.E.
 LOCKWOOD, J., [184].....905 New Jersey Avenue
 LOGIE, B. R., [36].....1836 Connecticut Avenue N.W.
 MACDONALD, G. B. R., [37].....721 E. Capitol Street
 MACFARLAND, H. B. F., [28].....1420 New York Avenue
 MACKALL, L., [34].....3044 O Street
 MCKIMMIE, O. A. M., [34].....The Cumberland
 MACMILLAN, J. T., [37].....1314 12th Street N.W.
 MCNEIL, H. C., [35].....1210 Decatur Street
 MCNEMAR, L. C., [35].....1912 G Street
 MALLORY, W. J., [36].....1720 Connecticut Avenue
 MANN, A., [33].....Imperial Apartment House

MAURER, R., [138].....	2029 Park Road N.W.
MEARNS, W. A., [28].....	2301 S Street
MECHLIN, O. A., [34].....	3203 R Street N.W.
MENGE, G. A., [179].....	1812 G Street
MERRILL, G. P., [32].....	U. S. National Museum
MERRILL, W. H., [36].....	The Northumberland
MILLER, G. B., [34].....	1730 K Street
MOORE, W. C., [35].....	Wyoming Apartment House
MOORE, W. L., [33].....	Rockville, Md., R. F. D.
MORGAN, J. D., [33].....	919 15th Street
MORSE, R. W., [36].....	Patent Office
MORTIMER, C. W., [35].....	The Woodworth
MULLIGAN, E. W., [38].....	1101 L Street
MUNCASTER, A., [179].....	482 Louisiana Avenue
MUNROE, C. E., [32].....	2115 S Street
NICHOLS, J. B., [35].....	1321 Rhode Island Avenue
NOYES, T. W., [28].....	1730 New Hampshire Avenue
ODOR, C. L., [34].....	906 G Street
OMER, J. A., [137].....	George Washington University Hospital
PAGAN, A. E., [37].....	1965 Biltmore Street
PERKINS, H. C., [28].....	1701 Connecticut Avenue
PETER, A., [33].....	Washington Loan and Trust Building
PFEIFFER, J. A. F., [37].....	Government Hospital for Insane
PHILLIPS, G. W., [38].....	612 18th Street N.W.
POTTER, G. M., [184].....	Ontario Apartment House
PRENTISS, D. W., [35].....	1213 M Street
PRICE, T. M., [35].....	The Iowa
RANDOLPH, B. M., [33].....	2010 R Street N.W.
REICHELDERFER, L. H.,.....	1721 Connecticut Avenue
REUTER, F. A., [38].....	1337 Park Road
RICHARDSON, C. W., [32].....	1317 Connecticut Avenue
RICHARDSON, E. E., [34].....	522 1st Street S.E.
RICHARDSON, W. S., [179].....	316 4 $\frac{1}{2}$ Street S.W.
RIGGLES, J. L., [35].....	1424 K Street
ROLLINGS, J. A., [137].....	George Washington University Hospital
REUDIGER, W. C. [33].....	1754 Church Street
RUFFIN, S., [32].....	1335 Connecticut Avenue
RUST, T. L., [36].....	1408 L Street
SATTERLEE, R. C., [38].....	518 H Street, Apt. 43
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SCHOENFELD, H., [32].....	3448 34th Street, Cleveland Park

SCHWINN, G. H., [36].....	Government Hospital for the Insane
SEIBERT, E. G., [36].....	1545 I Street N.W.
SHANDS, A. R., [32].....	901 16th Street
SHARP, G. M., [35].....	The Rochambeau
SHOEMAKER, C. G., [36].....	826 Connecticut Avenue
SHUTE, D. K., [32].....	1719 DeSales Street
SIMPSON, C. A., [35].....	1610 20th Street N.W.
SINGLETON, W. H., [28].....	2020 H Street
SLOAT, J. I., [37].....	The Congressional Apartment
SMALL, W. S., [36].....	1340 Irving Street
SMITH, C. S., [33].....	304 Takoma Avenue, Takoma Park, D. C.
SNYDER, A. A., [33].....	1126 16th Street N.W.
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STACHNIEVICK, J. H., [38].....	3479 Holmead Place
STAFFORD, W. P., [33].....	1725 Lamont Street
STARR, F. C., [35].....	901 Wilkins Building
STAVELY, A. L., [33].....	1744 M Street
STERNBERG, G. M., [33].....	2005 Massachusetts Avenue
STITT, E. R., [34].....	1708 R Street
STOCKARD, M., [37].....	The Lamont
STOCKTON, C. H., [32].....	2019 O Street N.W.
STONE, E. R., [35].....	The Champlain
STOUT, J. D., [34].....	2918 Georgia Avenue N.W.
STUART, A. T., [28].....	The Wyoming
SUPPLEE, E. D., [137].....	311 A Street N.E.
SUTTON, L. H., [37].....	Patent Office
SWETT, O. D., [35].....	Chevy Chase, Md.
SWISHER, C. C., [32].....	1810 Kalorama Road
SZE, T. P., [137].....	2750 14th Street
TAYLOR, J. W., [36].....	1616 I Street N.W.
THOMPSON, H. C., [32].....	3500 13th Street
THOMPSON, J. F., [32].....	The Rochambeau
TIBBETS, A. P., [165].....	The Laclede
TITUS, E. W., [37].....	911 16th Street N.W.
TECHIFFELY, D., [179].....	475 Pennsylvania Avenue
TURNER, J. P., [184].....	916 O Street
VAN ORSTRAND, C. E., [37].....	1607 31st Street
VAN VLECK, W. C., [37].....	Friendship Heights, D. C.
WAGNER, S. M., [179].....	85 H Street N.W.
WALTON, J. R., [33].....	724 9th Street
WALTON, R. R., [38].....	1123 13th Street
WEAKLEY, A. D., [36].....	1339 K Street
WEAVER, C. E., [38].....	131 11th Street N.E.

WELLER, F. P., [179].....	755 8th Street S.E.
WELLINGTON, J. R., [33].....	1723 Connecticut Avenue
WHITE, C. S., [33].....	911 16th Street, N.W.
WHITE, H., [28].....	1624 Crescent Place
WHITE, W. A., [33].....	Government Hospital for Insane
WILBUR, W. A., [32].....	2103 S Street
WOLFE, A. S., [34].....	710 14th Street
WOODHULL, M. VAN Z., [28].....	2033 G Street
WOODWARD, M. R., [36].....	2145 California Street
WOODWARD, W. C., [33].....	1782 Lanier Place
YARROW, H. C., [32].....	2116 Bancroft Place
YOUNG, H. C., [36].....	3104 N Street

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VOLUME XIII

NUMBER 2

The George Washington University Bulletin

TRAINING SCHOOL
FOR NURSES



June, 1914

PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C.
MARCH, JUNE, OCTOBER AND DECEMBER

Entered October 6th, 1904, at Washington, D. C., as second-class matter under
Act of Congress of July 16th, 1894.

THE GEORGE WASHINGTON UNIVERSITY TRAINING SCHOOL FOR NURSES

The George Washington University Training School for Nurses in connection with the University Hospital, was opened February 28, 1903.

The University Hospital had been originally established in 1898 in pursuance of action of the Board of Trustees of the University which provided that "there shall be, and is hereby, established a general Hospital and Dispensary, to be conducted in the building, formerly used by the preparatory school of the University at No. 1335 H Street N.W., in the City of Washington, D. C.; and all necessary changes, alterations, and repairs, including the chairs or seats in the clinical amphitheatre, in said building, shall be made by and at the expense of the University, and shall be completed on or before September 1, 1898; the said hospital to be conducted in connection with the educational work of the Medical School of the Columbian University and for the purpose of providing clinical instruction for its students. It was further provided that the Executive Medical Faculty of said medical school shall ex officio constitute the medical staff of said hospital, and shall have charge of the patients in said hospital and of all matters of medical administration and instruction in the same."

Soon after the adoption of this Ordinance, the preparatory school building was made ready for hospital use and was opened with proper ceremonies on the first day of November 1898, the first patient being admitted to a private room on that day.

The Hospital as then constituted was small and it was soon seen that it was entirely inadequate for the purposes of a University Hospital. While the original hospital building was in use, the nursing was carried on by nurses obtained from the Children's Hospital and from the Columbia Hospital for Women as the Institution was too small to maintain its own Training School for Nurses.

On account of the inadequacy of the Hospital, action was taken to enlarge it and the Board of Trustees, inspired with the spirit of progress and with a loyal regard for the interest and future development of the Medical School, secured a loan and erected a new building immediately adjoining the old one. The University Dispensary was established in the old building and has been maintained there up to the present writing. The present Hospital, comprising the old and new buildings, contains accommodations for forty-two private patients and has open wards accommodating sixty patients.

The new and enlarged hospital was formally opened February 28, 1903, with proper dedicatory ceremonies and on the same day the Training School for Nurses was inaugurated. The course of instruction was made to cover a period of three years and included general, medical, surgical, gynecological and obstetrical nursing. The theoretical instruction comprised weekly lectures by the Professors in the Medical Department of the University; lectures on Anatomy by the Superintendent of the Hospital and recitations on Materia Medica under the direction of the Pharmacist. Practical nursing was demonstrated at the bedsides and taught in the class rooms by the Superintendent of Nurses. The first Superintendent of Nurses was Miss Minnie Paxton and in her report for the year 1903, dated December 17, she reports that there were then in the school

- 1 Superintendent of Nurses
- 1 Assistant Superintendent of Nurses
- 1 Night Superintendent
- 19 Pupil Nurses
- 2 Probationers

The number of nurses has been steadily increased until at the present time 40 nurses are provided for.

Miss Paxton remained as Superintendent of Nurses until June 30, 1904. She was succeeded by Miss Mary Belle Struble. Miss Struble remained as Superintendent of Nurses until September 1, 1910 when she was succeeded by Miss Birdie B. Thompson. Miss Thompson remained as Superintendent until November, 1912, when she resigned and was succeeded by Miss Mary Winifred Glascock, the Superintendent at this writing.

NURSES HOME

Before the Hospital was enlarged, the few nurses required lived in the Hospital building but when the new Hospital was put in operation, the nurses were placed in rented quarters at 1324 I Street, directly behind the Hospital. This building was used by them until May 1, 1909 when another and larger nurses' home was rented at 1412 I Street.

The disadvantages of housing the nurses in rented quarters were many and finally in 1912 a Nurses' Home was purchased at 1016 13th Street, N.W. This was further enlarged in 1913 by the purchase of the adjoining house 1300 L Street so that at the present writing the nurses have excellent and adequate accommodations.

BOARD OF LADY MANAGERS

Since the establishing of the Hospital and Training School for Nurses, both these Institutions have been very materially assisted by a most efficient Board of Lady Managers. This Board has worked most energetically in the interest of both the Hospital and Training School and by personal endeavor and financial assistance have done much to improve these Institutions.

DIRECTORY FOR NURSES

A general directory for Graduate Trained Nurses was established in connection with the Training School and Hospital during the first year in which the Training School was in operation. The object of this directory is to afford a means to physicians and patients of securing with the least loss of time, the services of competent and reliable trained nurses. The directory is under the supervision of the Executive Committee of the Faculty of Medicine and under the direct charge of the Superintendent of Nurses. In this directory two lists are maintained. The first, or preferred list, is that of graduates of the University Training School for Nurses. When nurses are called for by physicians they are taken from this list until the list is exhausted, for the reason that the Directory for Nurses was primarily the University Training School Directory and carried on not only to assist physicians and patients, but the graduates of the University Training School also. A second list is kept, consisting of names of such reputable trained nurses as may apply for registration and are approved by the Executive Committee of the Faculty. This list is open to all reputable nurses and is used when the Training School list is exhausted. It is intended that registration in these lists, so far as is possible, shall be a guarantee of competency and reliability.

OBJECT AND ADMINISTRATION OF THE TRAINING SCHOOL

The object of the Training School is to give instruction to women in the art of nursing. It is under the general supervision of the President and Board of Trustees of the University and under the direct control of the Executive Committee of the Faculty of Medicine and under the immediate charge of the Superintendent of Nurses. The University Hospital is an integral part of the Medical School of the University and was founded primarily for teaching purposes. It has all the advantages arising from connection with a Medical School of high grade.

The Staff of the Hospital are all members of the Faculty of Medicine of the Medical School and the nurses receive the benefit arising from instruction and nursing cases under these trained instructors.

The Hospital itself is a general hospital located in the central part of the city and connected with it there is a Dispensary having a large outpatient service, so that the Institution affords a thorough and practical experience in medical, surgical, gynecological, obstetrical and emergency nursing and the administration work incident to a hospital.

REQUIREMENTS FOR ADMISSION

Candidates must apply personally or by letter to the Superintendent of Nurses upon blank forms provided therefor. Applicants must be 19 and not over 30 years of age. They must be in good physical con-

dition and present satisfactory evidence of their preliminary educational qualifications. Graduation from a grammar school and two years work in a high school or academy or its equivalent is necessary. Approved applicants will be taken for a probationary period of four months as vacancies may occur. Such probationers as are deemed fitted for the duties of nurses, at the expiration of their probationary period, upon subscribing to the requirements of the school, will be accepted as pupil nurses.

COURSE OF TRAINING

The course of training (including the probationary period) covers three years and comprises practical and theoretical instruction. Practical instruction is given in the wards of the Hospital under the supervision of the Superintendent of Nurses.

The theoretical instruction is given by members of the Faculty of Medicine and by the Superintendent of Nurses and her assistants. The course in theoretical instruction is as follows:

First Year—Anatomy and Physiology, Bacteriology, Practical Nursing.

Second Year—Materia Medica, Anatomy, Nursing of Skin Diseases, Nursing of Medical and Contagious Diseases, Nursing in Diseases of Ear, Nose and Throat, Nursing in Diseases of Eye.

Third Year—Nursing of Sick Children and Infant Feeding, Obstetrical Nursing, Gynecological Nursing, Surgical Nursing, Dietetics, Massage.

REGULATIONS

I. Probationers, when admitted to the School, will require the following outfit:

Uniform—3 Uniform Dresses, 3 Uniform Caps, 14 Uniform Aprons, 1 doz. pairs Uniform Cuffs, 1 doz. Uniform Ties, 1 doz. Uniform Collars.

Additional Articles—3 Striped Underskirts, 1 Bath Robe, 2 Laundry Bags, 1 pair Slippers, 2 pairs Shoes, with rubber heels, 1 Watch with Second Hand, Text Books.

II. The cost of the uniform, exclusive of the caps and collars, is thirty dollars. Text-books for the entire course cost about eight dollars. The cost of the other articles is small.

III. A probationer on admission may bring with her any or all of the articles of her outfit except her uniform. If she is unable to pay for her outfit, it will be furnished her by the Hospital and one-half her monthly pay will be retained until the cost of the articles is defrayed. All articles furnished by the Hospital will belong to the Hospital until paid for.

IV. To insure uniformity and economy the uniform must be procured through the Superintendent of Nurses, and no nurse will be allowed to go on duty until her outfit has been inspected and found to comply with the requirements of the School.

V. All articles of clothing must be plainly made and marked with name in full.

VI. Jewelry is not allowed to be worn on duty, and if of any value, is best left at home. If brought it will be at the risk of the owner.

VII. Two hours, if work permits, are allowed every week day, for rest, study and recreation, also one-half day after 2 p.m. each week, and four hours each Sunday.

VIII. A vacation of two weeks is allowed each year and in case of senior pupil nurses, a vacation of four weeks will be allowed if the Hospital duties permit.

IX. A pupil nurse may be dismissed at any time if there is sufficient cause for such action, but no dismissal shall be made without the approval of the President of the University.

SALARY

Instruction and training are considered the full equivalent for the services of a pupil nurse; however, a salary is paid of seven dollars a month (including the four months probation period).

GRADUATES

Since the opening of the school in 1903 to June, 1914, ninety nurses have been graduated.

LIST OF GRADUATES 1903 TO 1914

NAMES		GRADUATED
Rebekah Blue.....	West Virginia	1906
Mary Carey.....	Virginia	1906
Pauline Childs.....	Maryland	1906
Mary Hardy.....	Virginia	1906
Martha Henry.....	Virginia	1906
Ellen Henson.....	Virginia	1906
Mary Elizabeth Morgan.....	Virginia	1906
Lillian Oliver.....	Georgia	1906
Elenor T. Paul.....	North Carolina	1906
Nina Post.....	Pennsylvania	1906
Ruth Price.....	Virginia	1906
Nellie Rothwell.....	District of Columbia	1906
Eula Watkins.....	Virginia	1906
Arnette Williams.....	Louisiana	1906
Marie T. Ryan.....	Ohio	1907
Alice T. Stabler.....	Virginia	1907
Jennie Page Avery.....	Michigan	1908
Annie Buscher.....	Virginia	1908
Laura Stokes Duke.....	Virginia	1908
Mabel Anetta Jones.....	North Carolina	1908
Emma Trimble Lohr.....	Virginia	1908
Florence Miller.....	New York	1908

NAMES	GRADUATED
Ada Nelson.....	Virginia..... 1908
H. Massie Taylor.....	Virginia..... 1908
Birdie Beall Thompson.....	Maryland..... 1908
Mable M. Thomas.....	Virginia..... 1908
Fannie B. Carter.....	Virginia..... 1909
Nellie J. Cleaver.....	Pennsylvania..... 1909
Ellen McGid Garrott.....	Maryland..... 1909
Anna Kate Herbert.....	Maryland..... 1909
Ada Isabelle Humphrey.....	Virginia..... 1909
Evelyn Hurdle.....	Maryland..... 1909
Mamie A. Mathews.....	Georgia..... 1909
Roberta Corson Morgan.....	Virginia..... 1909
Agnes Irene McKelby.....	Ohio..... 1909
Louise B. Page.....	West Virginia..... 1909
Minnie H. Redman.....	District of Columbia..... 1909
Rose T. Ridgley.....	Maryland..... 1909
Carrie R. White.....	New York..... 1909
Sadie Willoughby.....	District of Columbia..... 1909
Sadie Washington.....	Virginia..... 1909
Freda Fanetta Feidt.....	West Virginia..... 1910
Armintha Howell.....	Virginia..... 1910
Ida May King.....	Maryland..... 1910
L. Pearl Mewshaw.....	Maryland..... 1910
Mattie Duval Quinn.....	Virginia..... 1910
Rachel Trimble.....	Virginia..... 1910
M. Catherine Amberger.....	Virginia..... 1911
Amelia Balser.....	Virginia..... 1911
Grace Wynona Brown.....	Maryland..... 1911
Fay Gring Butler.....	Pennsylvania..... 1911
Lily Hughes.....	England..... 1911
Dora V. Krebs.....	Maryland..... 1911
Lucy Lamon.....	Virginia..... 1911
Nannie Stone Moncure.....	Virginia..... 1911
Adelaide Parsons.....	California..... 1911
Tresa Starkweather.....	District of Columbia..... 1911
Ruth M. Tappan.....	District of Columbia..... 1911
Jessie Whyte.....	Maryland..... 1911
Nettie Anderson.....	New York..... 1912
Ida Bell Carskadon.....	West Virginia..... 1912
Eliza Chinn.....	Virginia..... 1912
Elizabeth R. Dorsett.....	Maryland..... 1912
Lily Catherine Jolliffe.....	Maryland..... 1912
Elfrieda Lundine.....	Sweden..... 1912
Alice May Melton.....	North Carolina..... 1912

NAMES		GRADUATED
Jane Morgan	Virginia	1912
Emily Stone Mowatt	Canada	1912
Ethel B. Raymond	District of Columbia	1912
Lelia Sisk	North Carolina	1912
Elizabeth D. Smith	Virginia	1912
Laura Spencer	Virginia	1912
Annie Tomlinson	England	1912
Isabelle Pauline Barber	Maryland	1913
Eva Bowen	Maryland	1913
Ivy Bready Cashell	Maryland	1913
Celeste J. Gust	Ohio	1913
Namoi Jones	Pennsylvania	1913
Curtis Maude Ownby	North Carolina	1913
Isabelle Price	North Carolina	1913
Gertrude Mary Adams	New York	1915
Ella Clayton Buckley	Virginia	1914
Daisy Edna Case	Virginia	1915
Ruby May Garthright	Virginia	1914
Nannie May Pike	North Carolina	1914
Sidney Sophia Pearson	Virginia	1914
Elizabeth Key Quesenberry	Virginia	1914
Mary Bennett Quesenberry	Virginia	1914
Catherine Meta Swart	Virginia	1914
Wilhelmina Triplett	Virginia	1914

VOLUME XIII

NUMBER 3

George Washington University Bulletin

REPORT OF THE TREASURER

1913-1914



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WASHINGTON, D. C.

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Press of
The Crane Printing Co.
Washington, D. C.

Report of the Treasurer

OCTOBER 12, 1914.

The Board of Trustees of George Washington University.

GENTLEMEN: I have the honor to submit herewith a report showing in detail the financial operations of the University for the fiscal year ended August 31, 1914, and exhibiting the condition of endowment and special funds and investments, as required by the By-Laws of the University, certified by The American Audit Company of New York.

The following additions were made to the endowment fund during the year:

Corcoran Endowment	\$ 100.00
Cooper Endowment	652.08
Chapman Endowment	1,225.90
Total	<u>\$1,977.98</u>

By authority of the Board, the residence, 1300 L Street, was purchased, to be used as an annex to the Nurses' Home, at a cost of \$8,000. A cash payment of \$3,000 was made from the Medical surplus, of which the Board of Lady Managers of the Hospital contributed \$1,000, and the remainder, \$5,000., was secured by a mortgage note. Monthly payments have reduced this indebtedness to \$4,762.50.

During the current year payments on the mortgage notes securing 2023 G Street were made as follows:

Balance of the second trust	\$ 9,000.00
Account of the first trust	1,000.00
Total payments	<u>\$10,000.00</u>

Of the above \$10,000 mortgage reductions, \$7,640 was contributed by donors to the Building and Ground Fund, and the balance of \$2,360 paid out of the surplus of 1912-1913.

The Mechanical Engineering Laboratory was completed at a total cost of \$4,469.77, of which donors to the special building fund contributed \$2,950, and the balance of \$1,519.77 paid out of the surplus of 1912-1913.

Very respectfully yours,

CHARLES W. HOLMES,
Treasurer.

Report of The American Audit Company

OCTOBER 6, 1914

GENTLEMEN: We have examined the accounts and records of the GEORGE WASHINGTON UNIVERSITY for the year ended August 31, 1914, and submit our report including Exhibits and Schedules as follows:

EXHIBIT "A"—BALANCE SHEET.

As at August 31, 1914.

"B"—SURPLUS ACCOUNT.

As at August 31, 1914.

"C"—MEDICAL SCHOOL SURPLUS.

As at August 31, 1914.

"D"—LAW SCHOOL SURPLUS.

As at August 31, 1914.

"E"—REVENUE ACCOUNT.

For the year ended August 31, 1914.

"F"—DEPARTMENT OF ARTS AND SCIENCES.

For the year ended August 31, 1914.

"G"—LAW SCHOOL.

For the year ended August 31, 1914.

"H"—MEDICAL AND DENTAL SCHOOLS.

For the year ended August 31, 1914.

"I"—DENTAL SCHOOL.

For the year ended August 31, 1914.

"J"—UNIVERSITY HOSPITAL.

For the year ended August 31, 1914.

"K"—STATEMENT OF CASH RECEIPTS AND PAYMENTS.

For the year ended August 31, 1914.

"L"—SUMMARY OF ENDOWMENT FUNDS.

As at August 31, 1914.

"M"—SPECIAL FUNDS.

As at August 31, 1914.

"N"—ENDOWMENT AND SPECIAL FUNDS, INCOME AND EXPENSE.

For the year ended August 31, 1914.

SCHEDULE "1"—IMPAIRMENT OF ENDOWMENT FUNDS.

As at August 31, 1914.

"2"—ENDOWMENT FUNDS REPRESENTED BY INVESTMENTS.

As at August 31, 1914.

"3"—ENDOWMENT FUND INVESTMENTS.

As at August 31, 1914.

CASH, \$14,341.64.

We counted the cash on hand on September 18, 1914, and reconciled the Cash Account with bank pass books as at August 31, 1914, finding deposits in banks, as per pass books and cash in accord with balance shown by your books.

ACCOUNTS RECEIVABLE: \$7,462.87.

These accounts consist of fees, etc., due for the term 1913-1914, from students in the various departments as follows:

School of Graduate Studies	\$367.72	
Columbian College	746.72	
College of Engineering	381.00	
Teachers College	43.75	
Total Department of Arts and Sciences		\$1,539.19
Law School		615.75
Medical School	1,304.19	
Dental School	819.52	
		2,123.71
Accounts due University Hospital from patients for the year 1913-1914		1,063.78
Income from Endowments, available, but not transferred to University account as at August 31, 1914		2,120.44
		<u>\$7,462.87</u>

The balances standing in accounts as at September 1, 1913, remaining unpaid at August 31, 1914, are considered worthless and were charged against the respective Surplus Accounts.

EQUIPMENT: \$75,933.75.

The cost of equipment purchased during the year was added to this account.

DEPRECIATION:

No adjustment on account of depreciation was made during the year of book value and Library Books and Equipment.

LIABILITY FOR IMPAIRMENT OF ENDOWMENT FUNDS: \$341,905.02.

The impairment of Endowment Funds as at September 1, 1913 (\$342,005.02), has been decreased \$100.00 by donation for the rehabilitation of the Corcoran Endowment.

NET INCOME:

The net Income for the year from all departments exclusive of the University Hospital, was \$14,305.20, as shown by Exhibit "E."

MEDICAL SCHOOL SURPLUS: \$8,496.02.

This account includes the surplus of the University Hospital and Medical and Dental Schools as at August 31, 1914, as shown by Exhibit "C."

LAW SCHOOL SURPLUS: \$2,652.66.

This account represents the Law School Surplus as at August 31, 1914, as shown by Exhibit "D."

SURPLUS ACCOUNT: \$201,768.57.

The variation in this account over August 31, 1913, is shown by Exhibit "B."

ENDOWMENT FUNDS:

On October 2, 1914, in the presence of Mr. C. W. Holmes, Treasurer, and Mr. Richard Cobb, Secretary, at the American Security and Trust Company, Washington, D. C., we inspected the securities representing the investments of Endowment and Special Funds in stocks and bonds, as per Exhibit "M," and Schedule "3." We also inspected the trust notes, or receipts for same where they are deposited at the several banks for collection.

We also verified the cash balances at August 31, 1914, representing the uninvested principal and unexpended income of the Endowment and Special Funds, by reconciliation of these funds with bank pass books.

Respectfully submitted,

THE AMERICAN AUDIT COMPANY

(SEAL)

By C. R. CRANMER,

Resident Manager.

Approved:

F. W. LAFRENTZ, *President.*

Attest:

A. P. LAFRENTZ, *Secretary.*

EXHIBIT "A."
BALANCE SHEET.
As at August 31, 1914.

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GEORGE WASHINGTON UNIVERSITY.

<i>Assets.</i>		<i>Liabilities.</i>	
<i>Cash:</i>		<i>Trust Notes:</i>	
In Bank	\$14,341.64	Notes secured by Deeds of Trust on:	
Petty Cash Fund University	500.00	2023 G Street	21,500.00
Petty Cash Fund, Hospital	500.00	1016 13th Street	7,000.00
Petty Cash Fund, Medical School	100.00	1300 L Street	\$28,500.00
			4,762.50
	\$15,441.64		\$33,262.50
<i>Accounts Receivable:</i>		<i>Interest Payable</i>	
Students' Ledger, 1913-1914	4,278.65	Engineering Laboratory Building Fund	298.44
Hospital Accounts, 1913-1914	1,063.78	Building and Grounds Fund Contributions	2,950.00
Endowment Income Receivable	2,120.44	Less Disbursements (other than Trust Notes Paid)	11,134.00
			153.00
<i>Library Books</i>	7,462.87		10,981.00
<i>Equipment</i>	37,000.00	<i>Liability for Impairment of Endowment Funds:</i>	
<i>Insurance:</i>	75,933.75	Principal and Accumulated Income, Schedule 1	341,905.02
Withdrawal Value of Perpetual Insurance Policies	1,406.25	Medical School Surplus:	
<i>Real Estate:</i>		As per Exhibit "C"	8,496.02
Medical Lot and Building	403,599.93	Law School Surplus:	
2023 G Street	\$32,500.00	As per Exhibit "D"	2,652.66
2023 G Street (3 lots adjoining)	4,500.00	Surplus Account:	
	37,000.00	As per Exhibit "B"	201,768.57
<i>2023 G Street (Engineering Laboratory Building)</i>	4,469.77		
1016 13th Street	12,000.00		
1300 L Street	8,000.00		
	20,000.00		
	465,069.70		
	\$602,314.21		
			\$602,314.21

EXHIBIT "B."
SURPLUS ACCOUNT.

As at August 31, 1914.	
Balance, as at September 1, 1913	\$192,417.55
<i>Add:</i>	
Transfer of funds from Medical School Surplus, for the purchase of Nurses' Home	3,000.00
Contribution for rehabilitation of Corcoran Endowment Fund	100.00
Old Accounts Collected:—Prior to August 31, 1912.....	351.28
Net Income for University for year ended August 31, 1914, transferred from Revenue Account, Exhibit "E."	14,305.20
	<u>\$210,174.03</u>
<i>Less:</i>	
Fees Columbian College, 1912-13	60.00
Uncollectible Accounts, 1912-13	1,003.90
Net Income Medical and Dental Schools for the year ended August 31, 1914, transferred to the Medical School Surplus, Exhibit "C"	4,509.41
Net Income from the Law School for the year ended August 31, 1914, transferred to the Law School Surplus, Exhibit "D"	2,832.15
	<u>8,405.46</u>
Balance August 31, 1914	<u>\$201,768.57</u>

EXHIBIT "C."

MEDICAL SCHOOL SURPLUS.

As at August 31, 1914.

Balance, as at September 1, 1913 \$4,821.13

Add:

Donations from Board of Lady Managers to be used in purchase of Nurses' Home Annex	1,000.00
Net Income Medical and Dental Schools for year ended August 31, 1914, Exhibit "H"	4,509.41
Net Income University Hospital for year ended August 31, 1914, Exhibit "J"	2,739.29
Unused balance of fire damages collected on contents of Medical Building	203.02
Old Hospital Accounts collected	86.50
	<u>\$13,359.35</u>

Less:

Transfer of funds for purchase of Nurses' Home \$3,000.00	
Uncollectible Accounts:—	
Medical School, 1912-13	\$ 366.39
Hospital 1912-13	1,144.21
	<u>1,510.60</u>
Salaries for 1912-13 paid to Professors, authorized by Executive Committee meeting December 15, 1913	225.00
Fees Dental School 1912-1913	20.12
Balance of 1912-1913 salary paid Dr. Kollig.....	107.61
	<u>4,863.33</u>
Balance August 31, 1914	<u>\$8,496.02</u>

EXHIBIT "D."

LAW SCHOOL SURPLUS

As at August 31, 1914.

Balance, as at September 1, 1913	\$ 18.51
<i>Add:</i>	
Net Income Law School for year ended August 31, 1914.	2,832.15
Exhibit "G"	<u>\$2,850.66</u>
<i>Less:</i>	
Uncollectible Accounts 1912-13	<u>198.00</u>
Balance August 31, 1914.	<u>\$2,652.66</u>

Administrative Expenses:	
Salaries, Clerk Hire, etc.	11,306.23
Stationery and Printing	929.98
Advertising	573.87
Postage	661.09
Auditing	500.00
Commencement Expenses	1,075.92
Taxes	301.32
Miscellaneous	453.35
	<hr/>
Interest on Trust Notes	15,801.76
Net Income for year ended August 31, 1914, trans-	1,247.86
ferred to Surplus Account, Exhibit "B."	14,305.20
	<hr/>
	\$49,992.47

\$49,992.47

EXHIBIT "F."

DEPARTMENT OF ARTS AND SCIENCES.

For the year ended August 31, 1914

Income.

Tuition:

School of Graduate Studies	\$ 5,150.00	
Columbian College	28,614.75	
College of Engineering	13,296.25	
Teachers College	5,746.37	
		<u>52,807.37</u>

Matriculation:

School of Graduate Studies	130.00	
Columbian College	1,220.00	
College of Engineering	425.00	
Teachers College	235.00	
		<u>2,010.00</u>

Laboratory:

School of Graduate Studies	163.90	
Columbian College	2,704.20	
College of Engineering	613.98	
Teachers College	51.06	
		<u>3,533.14</u>

Library:

School of Graduate Studies	144.00	
Columbian College	888.00	
College of Engineering	418.00	
Teachers College	250.00	
		<u>1,700.00</u>

Miscellaneous:

Contribution for Chi Omega Prize	15.00	
Contribution for English (Sigma Kappa) Prize..	10.00	
School of Graduate Studies	12.00	
Columbian College	65.00	
College of Engineering	18.00	
Teachers College	2.00	
		<u>122.00</u>
		<u>60,172.51</u>

Expenses.

Salaries	41,879.06	
Chi Omega Prize	15.00	
English (Sigma Kappa) Prize	15.00	
Laboratory	1,755.87	
Library	610.10	
Stationery and Printing	887.76	
Postage	76.62	
Telephone	338.67	
Supplies	58.70	
Traveling, Dues, etc.	128.16	
	<u>45,764.94</u>	
Transferred to General Fund	13,000.00	
		<u>58,764.94</u>
Net Income transferred to Revenue Account, Exhibit "E"		\$1,407.57

EXHIBIT "G."

LAW SCHOOL.

For the year ended August 31, 1914.

Income.

Tuition	\$30,961.25
Matriculation	715.00
Library	1,026.00
Contribution for Phi Delta Phi Prize	50.00
Contribution for Ellsworth Prize	25.00
Income from Special Funds	112.46
Sale of Chairs	58.50
Miscellaneous	20.60
	<hr/> 32,968.81

Expenses.

Salaries	\$20,739.52
Library	1,017.58
Stationery and Printing	533.77
Telephone	112.09
Postage	111.00
Advertising	499.20
Phi Delta Phi Prize	25.00
Ellsworth Prize	25.00
Miscellaneous	73.50
	<hr/> \$23,136.66
Transferred to General Funds	7,000.00
	<hr/> 30,136.66

Net Income, transferred to Revenue Account,
Exhibit "E" 2,832.15

EXHIBIT "H."
MEDICAL AND DENTAL SCHOOLS.
For the year ended August 31, 1914.

Income—Medicine.

Tuition	\$23,703.51
Matriculation	485.00
Laboratory	656.47
Library	492.00
Rent of Microscopes	617.25
Rent of Hall	190.00
Miscellaneous	30.05
	<hr/> \$26,174.28

Expenses.

Salaries	\$11,910.00
Laboratory	4,965.40
Library	121.42
Advertising	137.04
Stationery and Printing	553.95
Telephone	261.00
Postage	66.00
Traveling, Dues, etc.	391.70
	<hr/> \$18,406.51
Transferred to General Funds	8,000.00
	<hr/> 26,406.51
Net Loss Medical School	\$232.23
Net Income Dental School, transferred from Exhibit "I"	\$4,741.64
	<hr/>
Net Income Medical and Dental Schools, transferred to Revenue Account, Exhibit "E"	\$4,509.41

EXHIBIT "I."

DENTAL SCHOOL,

For the year ended August 31, 1914.

Income.

Tuition	\$8,098.70
Matriculation	210.00
Laboratory	174.71
Library	132.00
Rent of Microscopes	266.00
Infirmary	965.22
	<hr/>
	\$9,846.63

Expenses.

Salaries	\$4,043.75
Infirmary	841.85
Laboratory	51.75
Stationery and Printing	71.84
Advertising	31.68
Traveling, Dues, etc.	64.12
	<hr/>
	\$5,104.99
Net Income transferred to Medical and Dental Schools, Exhibit "II"	\$4,741.64

EXHIBIT "J."

UNIVERSITY HOSPITAL.

For the year ended August 31, 1914.

Income.

Pay Patients:	
Collected	\$52,358.48
Uncollected	1,063.78
	<hr/> \$53,422.26

Expenses.

Salaries	\$13,615.17
Table Supplies	16,625.76
Medical and Surgical Supplies	5,512.43
Electricity and Gas	2,716.66
Fuel	1,684.95
Laundry	1,284.87
Repairs	3,843.16
Miscellaneous Supplies	2,137.79
Ice	615.05
Telephone	566.26
Uniforms	265.00
Stationery and Printing	363.06
Insurance	119.00
Interest	575.00
Hauling	115.00
Lectures	100.00
Expenses account of purchase of Addition to Nurses' Home	51.62
Miscellaneous	492.19
	<hr/> 50,682.97
Net Income, transferred to Medical School Surplus, Exhibit "C"	\$2,739.29

EXHIBIT "K."
STATEMENT OF CASH RECEIPTS AND PAYMENTS.
For the year ended August 31, 1914.

<i>Receipts.</i>		<i>Payments.</i>	
<i>Receipts from Students:</i>		<i>Expenses:</i>	
Graduate Studies	\$5,322.33	Department of Arts and Sciences ...	\$45,751.91
Columbian College	32,980.33	Law School	23,151.11
Engineering	14,991.22	Medical School	18,355.79
Teachers College	6,278.07	Dental School	4,416.97
Law School	32,193.75		\$91,675.78
Medical School	25,537.26	University Hospital	50,475.31
Dental School	8,475.76	Dental Infirmary	690.79
Graduation Fees	1,942.00	Refunds to Students	2,486.97
Bonds	12.00		
	<u>\$127,732.72</u>	Maintenance of Buildings:	
University Hospital	52,433.77	University Buildings	7,560.21
Dental Infirmary	965.22	Law Hall	4,416.85
Contributions:		Medical Hall	7,210.47
General Expense 1912-1916	8,680.00		
Fifty Thousand Dollar Building and		General Expense	19,187.53
Ground Fund	7,640.00	Stationery and Printing	12,609.08
Engineering Laboratory Building		Advertising	889.23
Fund	225.00	Postage	573.87
	<u>16,545.00</u>	Interest	661.09
Students' Fees, 1910-1913	1,015.57	Commencement Expenses	1,518.17
Old Students' Fees Collected	57.60	Medical School Salaries, 1912-1913	1,119.30
Old Hospital Accounts Collected	27.93	Dental School Salaries, 1912-1913	305.65
Hospital Accounts Receivable	360.60	Equipment Law School	26.96
Medical Surplus—Old Accounts Collected	86.50	Equipment Medical School	374.79
Rent of Fraternity Rooms	264.00	Equipment General	424.20
Donations:		Engineering Laboratory Construction	237.71
Board of Lady Managers for Pur-		Repairs and Replacements:	4,470.96
chase Nurses Home Annex	1,000.00	Account of Fire Damage, contents Medical	
For Prizes	125.00	Building	1,012.38
		Nurses Home Annex	3,064.12

Medical School—Miscellaneous Income	239.51	Prizes:	
Law School—Miscellaneous Income .....	.60	Chi Omega	15.00
National College of Pharmacy—Matriculation Fees	95.00	Sigma Kappa	15.00
College of Veterinary Medicine—Matriculation and Graduation Fees	180.00	Ellsworth	25.00
Transfer of Endowment Income	3,582.43		55.00
Powell Fund for Professor's Salary	400.00	Petty Cash Fund Medical School	100.00
Sale of Stationery	13.00	Fifty Thousand Dollar Building and Ground Fund	10,036.15
Sale of Law Hall Chairs	58.50	Equitable Cooperative Building Association Loan Account	225.00
Interest on Bank Balances	202.39		
Refund from Continental Hall	43.38	Total Payments	\$202,220.04
Miscellaneous	57.97	Cash Balance, August 31, 1914:	
		Riggs National Bank	\$13,413.74
Total Receipts	\$205,486.69	Commercial National Bank	927.90
Cash Balance, September 1, 1913:			14,341.64
Riggs National Bank	\$10,147.09		
Commercial National Bank	927.90		
	11,074.99		
			<u>\$216,561.68</u>

EXHIBIT "L."

SUMMARY OF ENDOWMENT FUNDS.

As at August 31, 1914.

	Debit	Credit
Endowment Funds as at August 31, 1913.....		\$121,697.09
Additions to Endowment Funds:		
Corcoran Endowment Fund.....		100.00
Cooper Endowment Fund.....		652.08
Chapman Hospital Endowment Fund.....		1,225.90
Endowment Funds represented by Investments on August 31, 1914, as per Schedule No. 2.		123,675.07
Endowment Fund Investments:		
Investment of Endowment Funds on August 31, 1914, as per Schedule No. 3.	122,276.15	
Uninvested Cash on August 31, 1914:		
Eleanor J. Cooper Fund..... \$ 681.25		
Withington Scholarship Fund..... 82.55		
Davis Scholarship Fund..... 40.00		
Congressional Professorship of English Fund..... 51.52		
Woodbury Hospital Fund..... 3,083.33		
L. M. Tree Hospital Fund..... 74.37		
Susannah A. Chapman Hospital Fund..... 475.90		
Corcoran Endowment Rehabilitation..... 110.00		
		\$4,598.92
Less Amount Invested..... 3,200.00	1,398.92	
Total	\$123,675.07	\$123,675.07

EXHIBIT "M."
SPECIAL FUNDS.
As at August 31, 1914.

	Debit	Credit
<i>Law School Fund :</i>		
Investment of Law School Surplus the income to be used for the benefit of the Law School.		\$2,028.75
<i>H. Y. Denman Fund :</i>		
Bequest of Hampton Y. Denman for the use and benefit of the Law School. Realized from mining securities received under the bequest on distribution of capital of mining companies.		452.65
<i>Mary Emma Jacques Medical and Hospital Fund :</i>		
Bequest of Mary Emma Jacques for benefit of the University Medical School and Hospital. (Being one-half of the total bequest to the University.)		3,845.26
<i>Mary Emma Jacques Law School Fund :</i>		
Bequest of Mary Emma Jacques for the benefit of the University Law School. (Being one-half of the total bequest to the University.)		3,845.26
Total Special Funds at August 31, 1914.		10,171.92
<i>Special Fund Investments :</i>		
<i>Law School Fund :</i>		
Potomac Electric Power Company \$2,000 5% Consolidated Mortgage Gold Bonds due 1936.	\$2,028.75	
<i>Mary Emma Jacques Legacy :</i>		
The Metropolitan Railroad Company \$1,000 5% First Mortgage Gold Bond, due 1925.	1,070.00	
Norfolk and Washington Steamboat Co. \$500 5% Coupon Trust Bond, due 1931.	515.00	
U. S. Steel Corporation \$3,000 5% Sinking Fund Gold Coupon bonds, due 1963.	3,060.00	
Washington Railway Electric Company \$1,000 4% Consolidated Mortgage 50 year Gold Bond, due 1951.	860.00	
Washington Gas Light Company \$1,000 5% General Mortgage 50 year Gold Bond, due 1960.	1,105.00	
Uninvested Cash at August 31, 1914:		
H. Y. Denman Fund \$ 452.65		
Mary E. Jacques Legacy 1,080.52	1,533.17	
	\$10,171.92	10,171.92

EXHIBIT "N."
ENDOWMENT AND SPECIAL FUNDS, INCOME AND EXPENSES.
For the year ended August 31, 1914.

	Balance Aug 30, 1913.		Year ended Aug. 31, 1914.		Balance Aug. 31, 1914.	
	Debit.	Credit.	Expense.	Income.	Debit.	Credit.
Endowment Funds:						
Corcoran Endowment Fund.....		2,448.90	2,448.90	1,305.26		1,305.26
Powell Scholarship Fund.....		3,416.32	1,783.64	158.34		1,791.02
Ordronaux Prize Fund.....		196.79	200.00	184.00		180.79
Eleanor J. Cooper Fund.....		1,644.21	884.47	452.90		1,212.64
E. K. Cutter Prize Fund.....	74.85		50.00	145.29		20.44
Elton Professorship Fund.....		743.87	743.87	198.23		198.23
Fitch Prize Fund.....	31.76			10.69	21.07	
Walsh Prize Fund.....		53.20		13.59		66.79
National Park Seminary Hos- pital Endowment.....		125.38		22.65		148.03
Davis Prize Fund.....		50.61	20.00	31.70		62.31
Withington Scholarship Fund.....		17.68		17.21		34.89
Davis Scholarship Fund.....	77.99			1.81	76.18	
Farnham Scholarship Fund.....		49.60		45.29		94.89
M. M. Carter Scholarship Fund.....		49.60	40.00	45.29		54.89
M. L. Stone Scholarship Fund.....		139.18	80.00	90.58		149.76
Staughton and Elton Prize Fund.....		54.79		22.65		77.44
Ruggles Prize Fund.....	30.00				30.00	
Congressional Professorship of English Fund.....						
Woodbury Hospital Endowment.....		287.93	287.93	285.21		285.21
L. M. Tree Hospital Endowment.....		76.85	419.30	434.11		91.66
		94.44	543.00	452.90		4.31

Chapman Hospital Endowment.....	123.28				123.28
Gardiner G. Hubbard Memorial Prize Fund.....	.15	50.00	45.29	4.56	
J. McBride Sterrett Memorial Prize Fund.....	11.03		9.05	206.25	20.08
Special Funds:					
H. H. Carter Scholarship Fund.....	101.73	101.73	91.96		91.96
Law School Fund.....			20.50		20.50
H. Y. Denman Fund.....			348.39		348.39
Mary E. Jacques.....					
	420.85	7,652.84	4,432.89	338.06	6,382.80
Less Balances.....	420.85	4,432.89			338.06
Net Balances.....	\$0,264.69	\$3,219.95			6,044.74

SUMMARY.

Unexpended Income at August 30, 1913 \$9,264.69

Income for Year:

Endowment Funds:

Income for General Purposes \$1,788.70

Income for Designated Purposes ... 2,183.34

\$3,972.04

Special Funds:

Income for Designated Purposes 460.85

4,432.89

Total \$13,697.58

Expenses for Year:

Endowment Funds:

Expenses for Designated Purposes 7,551.11

Special Funds:

Expenses for General Purposes 101.73

7,652.84

Unexpended Income at August 31, 1914 \$6,044.74

SCHEDULE "1."

IMPAIRMENT OF ENDOWMENT FUNDS.

As at August 31, 1914.

Fund	Impairment principal	Impairment income
Congressional Endowment Fund.....	\$ 63,872.93	\$.....
Poindexter Endowment Fund.....	12,525.56	.....
Forty Thousand Dollar Endowment Fund.....	26,891.46	.....
Elton Professorship Fund.....	10,133.19	.....
Syms Legacy.....	1,500.00	.....
Withington Scholarship Fund.....	1,573.20	.....
Walker Scholarship Fund.....	2,500.00	.....
Morehouse Scholarship Fund.....	1,500.00	.....
Davis Scholarship Fund.....	1,000.00	.....
Powell Scholarship Fund.....	.....	22,272.00
Mary Lowell Stone Scholarship Fund.....	.....	775.38
Ruggles Prize Fund.....	500.00	.....
Fitch Prize Fund.....	764.00	914.83
Cutter Prize Fund.....	.....	75.14
Walsh Prize Fund.....	.....	126.58
Ordronaux Prize Fund.....	701.53	230.47
Corcoran Endowment Fund.....	189,158.75	.....
H. H. Carter Scholarship Fund.....	5,000.00	.....
Total at August 31, 1910.....	\$317,620.62	\$24,394.40
Less :		
Donations for rehabilitation of the Corcoran Endowment Fund :		
February 10, 1913..... \$ 10.00		
October 20, 1913..... 100.00	110.00	
Total at August 31, 1914.....	\$317,510.62	\$24,394.40

SUMMARY OF IMPAIRMENTS

Principal	\$317,510.62
Accumulated Income	24,394.40
	<u>\$341,905.02</u>

SCHEDULE "2."

ENDOWMENT FUNDS REPRESENTED BY INVESTMENTS.

As at August 31, 1914.

Congressional Endowment Fund:

Grant by Congress of land in the District of Columbia to be sold and the proceeds invested; the income "To be applied in aid of other revenues of the said college, to the establishment and endowment of such professorships therein as now are, or hereafter shall be established by the said trustees" \$21,539.00

Elton Professorship Fund:

Bequest of Romeo Elton, to be applied for the foundation of a professorship of mental and moral philosophy 4,375.00

Farnham Scholarship Fund:

Gift of Mrs. Robert Farnham, to establish a scholarship in the College 1,000.00

Maria M. Carter Scholarship Fund:

Gift of Mrs. Maria M. Carter, to establish a scholarship for some deserving young man 1,000.00

Admiral Powell Endowment:

Bequest of Admiral Levin M. Powell of land in the District of Columbia; the income to be devoted as far as the same will go, under such regulations as the trustees or overseers may deem best, to the free education of such young men that may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, etc. 18,923.00

Mary Lowell Stone Scholarship Fund:

Gift of Mary Lowell Stone to establish a scholarship fund to be paid to needy women in the Corcoran Scientific School at the discretion of the dean of said School 2,000.00

Staughton and Elton Prize Fund:

Gift of Rev. Wm. Staughton of \$250.00 to found a prize for the encouragement of classical literature in the Columbian College, to be called the Staughton Prize... } 500.00

Gift of Rev. Dr. Romeo Elton of \$250.00 toward the foundation of a prize fund for the encouragement of classical study in the Columbian College }

Willie E. Fitch Prize Fund:

Gift of James E. Fitch to found a gold medal with the income of said fund to be assigned under the auspices of the projected Scientific School \$236.00

E. K. Cutter Prize Fund:

Bequest of Marion Kendall Cutter to be invested; the income to be applied for the purchase of an annual prize for excellence in the study of English	1,000.00
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Thomas F. Walsh Prize Fund:

Gift of Thomas F. Walsh; the income to be applied for an annual gold medal in Irish History	300.00
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Ordronaux Prize Fund:

Bequest of Dr. John Ordronaux for the establishment of biennial prizes in the Law and Medical Schools	4,060.97
---	----------

Corcoran Endowment Fund:

Gift of Wm. W. Corcoran to found a permanent fund, of which the interest alone shall be applied for the purposes of the College	\$28,716.17
Donation for the rehabilitation of the Corcoran Endowment Fund	100.00
	<hr/> 28,816.17

Eleanor J. Cooper Fund:

Bequest of Eleanor J. Cooper; the income to be devoted to the investigation of the nature of the malarial poison arising from sewer gas and antidote thereof; to be perpetual	\$9,347.92
Transfer of income to principal account	652.08
	<hr/> 10,000.00

National Park Seminary Endowment:

Gift of the National Park Seminary for the endowment of a bed in the University Hospital	500.00
--	--------

Davis Prize Fund:

Gift of Hon. Isaac Davis to establish a fund; the income to be distributed annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College.....	700.00
--	--------

Woodbury Hospital Endowment:

Bequest of Ellen C. de Q. Woodbury for the reception and treatment of female patients by the Hospital belonging to or connected with the University	9,583.33
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Laura M. Tree Hospital Endowment:

Bequest of Judge Lambert Tree to establish one or more beds in perpetuity in "The Columbian University Hospital," to be known as the "Laura M. Tree bed or beds"	\$10,000.00
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Congressional Professorship of English Fund:

Proceeds from sale of Congressional Grant to be invested and the income applied as shown under Congressional Endowment Fund	6,295.77
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Gardiner G. Hubbard Memorial Prize Fund:

Gift of Gertrude M. Hubbard to establish an endowment; the income to be given annually to that member of the graduating class who has during four years maintained a high standing in American History..... 1,000.00

J. MacBride Sterrett, Jr., Memorial Medal Fund:

Gift of J. MacBride Sterrett to establish a fund; the income to provide a gold medal, annually awarded to that student taking course I in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic 200.00

Davis Scholarship Fund:

(Gift of Hon. Isaac Davis to establish a Scholarship Fund, the annual income to be appropriated to some student pursuing his collegiate course in said college.)
Gift of Hadleigh Marsh, reimbursing fund 40.00

Withington Scholarship Fund:

(Subscription of loan to Columbian College for the purpose of endowing a scholarship to be named the Withington Scholarship.)
Proportion of proceeds on settlement of estate of John Withington, deceased 379.93

Chapman Hospital Endowment:

Bequest of Susannah A. Chapman "to be used for the purposes of the free wards of its University Hospital." 1,225.90

\$123,675.07

SCHEDULE "3."

ENDOWMENT FUND INVESTMENTS.

As at August 31, 1914.

Stocks.

American Telephone and Telegraph Co.:	
6 shares of stock	\$708.00
Washington Sanitary Improvement Co.:	
130 shares of stock	1,300.00

Bonds.

Chicago, Rock Island and Pacific Railway Co.:	
\$24,000 4 per cent First and Refunding Mortgage Bonds, due 1934	20,959.17
Chicago, Rock Island and Pacific Railway Co.:	
\$5,000 4 per cent Collateral Trust Bonds of 2002	4,118.75
Chicago, Rock Island and Pacific Railway Co.:	
\$5,000 4 per cent Collateral Trust Bonds of 2002	4,060.97
City of New Brunswick, New Jersey:	
\$3,000 4 per cent Sinking Fund Bonds	3,000.00
City of Medford:	
\$3,000 4 per cent Sewerage Loan Bonds	3,000.00
Potomac Electric Power Co.:	
\$9,000 5 per cent Consolidated Gold Mortgage Coupon Bonds of 1936	8,988.75
Columbia Railway Co.:	
\$500 5 per cent Extension Mortgage Gold Coupon Bonds of 1914	505.63
Potomac Electric Power Co.:	
\$1,000 5 per cent Consolidated Gold Mortgage Coupon Bonds of 1936	1,000.00
Norfolk and Washington Steamboat Co.:	
\$200 5 per cent Coupon Bonds of 1931	208.00
Austen Coal and Coke Co.:	
\$1,000 5 per cent Consolidated Mortgage Gold Bonds of 1926	1,000.00
Washington Railway and Electric Co.:	
\$500 4 per cent Consolidated Mortgage 50-year Gold Bond, due 1951	431.25
Potomac Electric Power Co.:	
\$2,000 5 per cent Consolidated Gold Mortgage Coupon Bonds, due 1936	2,040.00

Potomac Electric Power Co.:	
\$3,000 5 per cent Consolidated Gold Mortgage Coupon Bonds, due 1936	2,996.25
Virginia Railway Co.:	
\$300 5 per cent First Mortgage Gold Bonds, Series "A," due 1962	297.38
Washington Railway and Electric Co.:	
\$4,000 4 per cent Consolidated Mortgage 50-year Gold Bonds, due 1951	3,200.00

Trust Notes.

Thomas R. Marshall Note:	
Note secured by deed of trust on part of lot 5, square 253, and lot 70, block 30, in Columbia Heights	5,000.00
Lewis Spectre Note:	
Note secured by deed of trust on lot 64, square 1017..	200.00
Washington Sanitary Improvement Co.:	
Real Estate Notes as follows: 12 notes of \$1,000 each; 2 notes of \$2,000 each	16,000.00
Wm. S. and Susan L. Dewhirst Note:	
Note secured by deed of trust on lot 9, square 243....	500.00
Agnes Plunkett Notes:	
Notes secured by deed of trust on part of lot 12, square 11, in Meridian Hill	200.00
Alfred Keir Notes:	
75 notes of \$10 each, dated August 10, 1914, secured on lot and building at Hyattsville, Prince George Co., Md.,	750.00

Real Property.

Real Property, 1707 I Street N. W.	18,923.00
Real Property, Burgdorf Lot (Sublot 148, square 672)....	1,350.00
Real Property Government Grant:	
Lot 8, square 13	2,565.00
Lot 10, square 13,	2,218.00
Lot 12, square 13	4,588.00
Lot 13, square 13	3,924.00
Lot 9, square 16	2,224.00
Lot 8, square 23	3,055.00
Lot 2, square west of 23	1,069.00
Lot 5, square 87	1,896.00
	<hr/>
	\$122,276.15

Summary.

Stocks	\$2,008.00
Bonds	55,806.15
Trust Notes	22,650.00
Real Property	41,812.00
	<hr/>
	\$122,276.15

VOLUME XIII

NUMBER 3

George Washington University Bulletin

REPORT OF THE TREASURER

1913-1914



1913-

PUBLISHED BY THE UNIVERSITY,
WASHINGTON, D. C.

George Washington University Bulletin

REPORT OF THE TREASURER
for the year ended August 31, 1914

Volume XIII, Number 3, October, 1914

Published four times a year; in March, June,
October and December

Entered October 6, 1904, at Washington, D. C., as second class matter
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The Crane Printing Co.
Washington, D. C.

Report of the Treasurer

OCTOBER 12, 1914.

The Board of Trustees of George Washington University.

GENTLEMEN: I have the honor to submit herewith a report showing in detail the financial operations of the University for the fiscal year ended August 31, 1914, and exhibiting the condition of endowment and special funds and investments, as required by the By-Laws of the University, certified by The American Audit Company of New York.

The following additions were made to the endowment fund during the year:

Corcoran Endowment	\$ 100.00
Cooper Endowment	652.08
Chapman Endowment	1,225.90
Total	\$1,977.98

By authority of the Board, the residence, 1300 L Street, was purchased, to be used as an annex to the Nurses' Home, at a cost of \$8,000. A cash payment of \$3,000 was made from the Medical surplus, of which the Board of Lady Managers of the Hospital contributed \$1,000, and the remainder, \$5,000., was secured by a mortgage note. Monthly payments have reduced this indebtedness to \$4,762.50.

During the current year payments on the mortgage notes securing 2023 G Street were made as follows:

Balance of the second trust	\$ 9,000.00
Account of the first trust	1,000.00
Total payments	\$10,000.00

Of the above \$10,000 mortgage reductions, \$7,640 was contributed by donors to the Building and Ground Fund, and the balance of \$2,360 paid out of the surplus of 1912-1913.

The Mechanical Engineering Laboratory was completed at a total cost of \$4,469.77, of which donors to the special building fund contributed \$2,950, and the balance of \$1,519.77 paid out of the surplus of 1912-1913.

Very respectfully yours,

CHARLES W. HOLMES,
Treasurer.

Report of The American Audit Company

OCTOBER 6, 1914

GENTLEMEN: We have examined the accounts and records of the GEORGE WASHINGTON UNIVERSITY for the year ended August 31, 1914, and submit our report including Exhibits and Schedules as follows:

EXHIBIT "A"—BALANCE SHEET.

As at August 31, 1914.

"B"—SURPLUS ACCOUNT,
As at August 31, 1914.

"C"—MEDICAL SCHOOL SURPLUS,
As at August 31, 1914.

"D"—LAW SCHOOL SURPLUS,
As at August 31, 1914.

"E"—REVENUE ACCOUNT,
For the year ended August 31, 1914.

"F"—DEPARTMENT OF ARTS AND SCIENCES,
For the year ended August 31, 1914.

"G"—LAW SCHOOL,
For the year ended August 31, 1914.

"H"—MEDICAL AND DENTAL SCHOOLS,
For the year ended August 31, 1914.

"I"—DENTAL SCHOOL,
For the year ended August 31, 1914.

"J"—UNIVERSITY HOSPITAL,
For the year ended August 31, 1914.

"K"—STATEMENT OF CASH RECEIPTS AND PAYMENTS,
For the year ended August 31, 1914.

"L"—SUMMARY OF ENDOWMENT FUNDS,
As at August 31, 1914.

"M"—SPECIAL FUNDS,
As at August 31, 1914.

"N"—ENDOWMENT AND SPECIAL FUNDS, INCOME AND EXPENSE,
For the year ended August 31, 1914.

SCHEDULE "1"—IMPAIRMENT OF ENDOWMENT FUNDS, As at August 31, 1914.

"2"—ENDOWMENT FUNDS REPRESENTED BY INVESTMENTS,
As at August 31, 1914.

"3"—ENDOWMENT FUND INVESTMENTS,
As at August 31, 1914.

CASH, \$14,341.64.

We counted the cash on hand on September 18, 1914, and reconciled the Cash Account with bank pass books as at August 31, 1914, finding deposits in banks, as per pass books and cash in accord with balance shown by your books.

ACCOUNTS RECEIVABLE: \$7,462.87.

These accounts consist of fees, etc., due for the term 1913-1914, from students in the various departments as follows:

School of Graduate Studies	\$367.72	
Columbian College	746.72	
College of Engineering	381.00	
Teachers College	43.75	
Total Department of Arts and Sciences		\$1,539.19
Law School		615.75
Medical School	1,304.19	
Dental School	819.52	
		2,123.71
Accounts due University Hospital from patients for the year 1913-1914		1,063.78
Income from Endowments, available, but not transferred to University account as at August 31, 1914		2,120.44
		<u>\$7,462.87</u>

The balances standing in accounts as at September 1, 1913, remaining unpaid at August 31, 1914, are considered worthless and were charged against the respective Surplus Accounts.

EQUIPMENT: \$75,933.75.

The cost of equipment purchased during the year was added to this account.

DEPRECIATION:

No adjustment on account of depreciation was made during the year of book value and Library Books and Equipment.

LIABILITY FOR IMPAIRMENT OF ENDOWMENT FUNDS: \$341,905.02.

The impairment of Endowment Funds as at September 1, 1913, (\$342,005.02), has been decreased \$100.00 by donation for the rehabilitation of the Corcoran Endowment.

NET INCOME:

The net Income for the year from all departments exclusive of the University Hospital, was \$14,305.20, as shown by Exhibit "E."

MEDICAL SCHOOL SURPLUS: \$8,496.02.

This account includes the surplus of the University Hospital and Medical and Dental Schools as at August 31, 1914, as shown by Exhibit "C."

LAW SCHOOL SURPLUS: \$2,652.66.

This account represents the Law School Surplus as at August 31, 1914, as shown by Exhibit "D."

REPORT OF THE TREASURER.

7

SURPLUS ACCOUNT: \$201,768.57.

The variation in this account over August 31, 1913, is shown by Exhibit "B."

ENDOWMENT FUNDS:

On October 2, 1914, in the presence of Mr. C. W. Holmes, Treasurer, and Mr. Richard Cobb, Secretary, at the American Security and Trust Company, Washington, D. C., we inspected the securities representing the investments of Endowment and Special Funds in stocks and bonds, as per Exhibit "M," and Schedule "3." We also inspected the trust notes, or receipts for same where they are deposited at the several banks for collection.

We also verified the cash balances at August 31, 1914, representing the uninvested principal and unexpended income of the Endowment and Special Funds, by reconciliation of these funds with bank pass books.

Respectfully submitted,

THE AMERICAN AUDIT COMPANY

(SEAL)

By C. R. CRANMER,

Resident Manager.

Approved:

F. W. LAFRENTZ, *President.*

Attest:

A. P. LAFRENTZ, *Secretary.*

EXHIBIT "A."
BALANCE SHEET.
As at August 31, 1914.

<i>Assets.</i>		<i>Liabilities.</i>	
<i>Cash:</i>		<i>Trust Notes:</i>	
In Bank	\$14,341.64	Notes secured by Deeds of Trust on:	
Petty Cash Fund University	500.00	2023 G Street	21,500.00
Petty Cash Fund, Hospital	500.00	1016 13th Street	7,000.00
Petty Cash Fund, Medical School ..	100.00		<u>\$28,500.00</u>
		1300 L Street	4,762.50
	<u>\$15,441.64</u>		<u>\$33,262.50</u>
<i>Accounts Receivable:</i>		Interest Payable	298.44
Students' Ledger, 1913-1914	4,278.65	Engineering Laboratory Building Fund	2,950.00
Hospital Accounts, 1913-1914	1,063.78	Building and Grounds Fund Contributions	11,134.00
Endowment Income Receivable	2,120.44	Less Disbursements (other than Trust Notes Paid)	153.00
			<u>10,981.00</u>
<i>Library Books</i>		Liability for Impairment of Endowment Funds:	
<i>Equipment</i>		Principal and Accumulated Income.	
<i>Insurance:</i>		Schedule 1	341,905.02
Withdrawal Value of Perpetual Insurance Policies	1,406.25	Medical School Surplus:	
		As per Exhibit "C"	8,496.02
<i>Real Estate:</i>		Law School Surplus:	
Medical Lot and Building	403,599.93	As per Exhibit "D"	2,652.66
2023 G Street	\$32,500.00	Surplus Account:	
2023 G Street (3 lots adjoining)	4,500.00	As per Exhibit "B"	201,768.57
	<u>37,000.00</u>		
2023 G Street (Engineering Laboratory Building)	4,469.77		
1016 13th Street	12,000.00		
1300 L Street	8,000.00		
	<u>20,000.00</u>		
	<u>465,069.70</u>		
	<u>\$602,314.21</u>		<u>\$602,314.21</u>

EXHIBIT "B."

SURPLUS ACCOUNT.

As at August 31, 1914.

Balance, as at September 1, 1913 \$192,417.55

*Add:*Transfer of funds from Medical School Surplus, for
the purchase of Nurses' Home 3,000.00Contribution for rehabilitation of Corcoran Endow-
ment Fund 100.00

Old Accounts Collected:—Prior to August 31, 1912..... 351.28

Net Income for University for year ended August 31,
1914, transferred from Revenue Account, Exhibit "E." 14,305.20\$210,174.03*Less:*

Fees Columbian College, 1912-13 60.00

Uncollectible Accounts, 1912-13 1,003.90

Net Income Medical and Dental Schools for the
year ended August 31, 1914, transferred to
the Medical School Surplus, Exhibit "C".... 4,509.41Net Income from the Law School for the year
ended August 31, 1914, transferred to the Law
School Surplus, Exhibit "D" 2,832.158,405.46Balance August 31, 1914 \$201,768.57

EXHIBIT "C."

MEDICAL SCHOOL SURPLUS.

As at August 31, 1914.

Balance, as at September 1, 1913 \$4,821.13

Add:

Donations from Board of Lady Managers to be used in purchase of Nurses' Home Annex	1,000.00
Net Income Medical and Dental Schools for year ended August 31, 1914, Exhibit "H"	4,509.41
Net Income University Hospital for year ended August 31, 1914, Exhibit "J"	2,739.29
Unused balance of fire damages collected on contents of Medical Building	203.02
Old Hospital Accounts collected	86.50
	<u>\$13,359.35</u>

Less:

Transfer of funds for purchase of Nurses' Home \$3,000.00

Uncollectible Accounts:—

Medical School, 1912-13	\$ 366.39
Hospital 1912-13	1,144.21
	<u>1,510.60</u>

Salaries for 1912-13 paid to Professors, authorized by Executive Committee meeting December 15, 1913	225.00
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Fees Dental School 1912-1913	20.12
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Balance of 1912-1913 salary paid Dr. Kollig.....	107.61
	<u>4,863.33</u>

Balance August 31, 1914	<u>\$8,496.02</u>
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EXHIBIT "D."

LAW SCHOOL SURPLUS

As at August 31, 1914.

Balance, as at September 1, 1913 \$ 18.51

Add:

Net Income Law School for year ended August 31, 1914,	2,832.15
Exhibit "G"	<u>\$2,850.66</u>

Less:

Uncollectible Accounts 1912-13	<u>198.00</u>
--------------------------------------	---------------

Balance August 31, 1914.	<u>\$2,652.66</u>
-------------------------------	-------------------

2,749.6A

Administrative Expenses	
Salaries, Clerk Hire, etc.	11,306.23
Stationery and Printing	929.98
Advertising	573.87
Postage	661.09
Auditing	500.00
Commencement Expenses	1,075.92
Taxes	301.32
Miscellaneous	453.35
Interest on Trust Notes	15,801.76
Net Income for year ended August 31, 1914, transferred to Surplus Account, Exhibit "B."	1,247.86
	14,305.20
	<u>\$49,992.47</u>

\$49,992.47

EXHIBIT "F."

DEPARTMENT OF ARTS AND SCIENCES.

For the year ended August 31, 1914

Income.

Tuition:

School of Graduate Studies	\$ 5,150.00	
Columbian College	28,614.75	
College of Engineering	13,296.25	
Teachers College	5,746.37	
		<u>52,807.37</u>

Matriculation:

School of Graduate Studies	130.00	
Columbian College	1,220.00	
College of Engineering	425.00	
Teachers College	235.00	
		<u>2,010.00</u>

Laboratory:

School of Graduate Studies	163.90	
Columbian College	2,704.20	
College of Engineering	613.98	
Teachers College	51.06	
		<u>3,533.14</u>

Library:

School of Graduate Studies	144.00	
Columbian College	888.00	
College of Engineering	418.00	
Teachers College	250.00	
		<u>1,700.00</u>

Miscellaneous:

Contribution for Chi Omega Prize	15.00	
Contribution for English (Sigma Kappa) Prize..	10.00	
School of Graduate Studies	12.00	
Columbian College	65.00	
College of Engineering	18.00	
Teachers College	2.00	
		<u>122.00</u>
		<u>60,172.51</u>

Expenses.

Salaries	41,879.06	
Chi Omega Prize	15.00	
English (Sigma Kappa) Prize	15.00	
Laboratory	1,755.87	
Library	610.10	
Stationery and Printing	887.76	
Postage	76.62	
Telephone	338.67	
Supplies	58.70	
Traveling, Dues, etc.	128.16	
	<u>45,764.94</u>	
Transferred to General Fund	13,000.00	
		<u>58,764.94</u>
Net Income transferred to Revenue Account, Exhibit "E"		\$1,407.57

EXHIBIT "G."

LAW SCHOOL.

For the year ended August 31, 1914.

Income.

Tuition	\$30,961.25	
Matriculation	715.00	
Library	1,026.00	
Contribution for Phi Delta Phi Prize	50.00	
Contribution for Ellsworth Prize	25.00	
Income from Special Funds	112.46	
Sale of Chairs	58.50	
Miscellaneous	20.60	
		<u>32,968.81</u>

Expenses.

Salaries	\$20,739.52	
Library	1,017.58	
Stationery and Printing	533.77	
Telephone	112.09	
Postage	111.00	
Advertising	499.20	
Phi Delta Phi Prize	25.00	
Ellsworth Prize	25.00	
Miscellaneous	73.50	
	<u>\$23,136.66</u>	
Transferred to General Funds	7,000.00	
		<u>30,136.66</u>

Net Income, transferred to Revenue Account,
Exhibit "E" 2,832.15

EXHIBIT "H."

MEDICAL AND DENTAL SCHOOLS.

For the year ended August 31, 1914.

Income—Medicine.

Tuition	\$23,703.51
Matriculation	485.00
Laboratory	656.47
Library	492.00
Rent of Microscopes	617.25
Rent of Hall	190.00
Miscellaneous	30.05
	<hr/> \$30,174.28

Expenses.

Salaries	\$11,910.00
Laboratory	4,965.40
Library	121.42
Advertising	137.04
Stationery and Printing	553.95
Telephone	261.00
Postage	66.00
Traveling, Dues, etc.	391.70
	<hr/> \$18,406.51
Transferred to General Funds	8,000.00
	<hr/> 26,406.51

Net Loss Medical School	\$232.23
Net Income Dental School, transferred from Exhibit "T"	\$4,741.64

Net Income Medical and Dental Schools, transferred to Revenue Account, Exhibit "E"	\$4,509.41
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EXHIBIT "I."

DENTAL SCHOOL,

For the year ended August 31, 1914.

Income.

Tuition	\$8,098.70	
Matriculation	210.00	
Laboratory	174.71	
Library	132.00	
Rent of Microscopes	266.00	
Infirmary	965.22	
		<u>\$9,846.63</u>

Expenses.

Salaries	\$4,043.75	
Infirmary	841.85	
Laboratory	51.75	
Stationery and Printing	71.84	
Advertising	31.68	
Traveling, Dues, etc.	64.12	
		<u>\$5,104.99</u>

Net Income transferred to Medical and Dental Schools,
Exhibit "H" \$4,741.64

EXHIBIT "J."

UNIVERSITY HOSPITAL.

For the year ended August 31, 1914.

Income.

Pay Patients:	
Collected	\$52,358.48
Uncollected	1,063.78
	<hr/> \$53,422.26

Expenses.

Salaries	\$13,615.17
Table Supplies	16,625.76
Medical and Surgical Supplies	5,512.43
Electricity and Gas	2,716.66
Fuel	1,684.95
Laundry	1,284.87
Repairs	3,843.16
Miscellaneous Supplies	2,137.79
Ice	615.05
Telephone	566.26
Uniforms	265.00
Stationery and Printing	363.06
Insurance	119.00
Interest	575.00
Hauling	115.00
Lectures	100.00
Expenses account of purchase of Addition to Nurses' Home	51.62
Miscellaneous	492.19
	<hr/> 50,682.97
Net Income, transferred to Medical School Surplus, Exhibit "C"	\$2,739.29

Medical School—Miscellaneous Income	239.51	Prizes:		
Law School—Miscellaneous Income	60	Chi Omega	15.00	
National College of Pharmacy—Matriculation Fees	95.00	Sigma Kappa	15.00	
College of Veterinary Medicine—Matriculation and Graduation Fees	180.00	Ellsworth	25.00	
Transfer of Endowment Income	3,582.43	Petty Cash Fund Medical School	55.00	
Powell Fund for Professor's Salary	400.00	Fifty Thousand Dollar Building and Ground Fund	100.00	
Sale of Stationery	13.00	Equitable Cooperative Building Association Loan Account	10,036.15	
Sale of Law Hall Chairs	58.50		225.00	
Interest on Bank Balances	202.39	Total Payments	\$202,220.04	
Refund from Continental Hall	43.38	Cash Balance, August 31, 1914:		
Miscellaneous	57.97	Riggs National Bank	\$13,413.74	
Total Receipts	\$205,436.69	Commercial National Bank	927.90	
Cash Balance, September 1, 1915:			14,341.64	
Riggs National Bank	\$10,147.09			
Commercial National Bank	927.90			
	11,074.99			
				<u>\$216,561.68</u>

EXHIBIT "L."

SUMMARY OF ENDOWMENT FUNDS.

As at August 31, 1914.

	Debit	Credit
Endowment Funds as at August 31, 1913.....		\$121,697.09
Additions to Endowment Funds:		
Corcoran Endowment Fund.....		100.00
Cooper Endowment Fund.....		652.08
Chapman Hospital Endowment Fund.....		1,225.90
Endowment Funds represented by Investments on August 31, 1914, as per Schedule No. 2.....		123,675.07
Endowment Fund Investments:		
Investment of Endowment Funds on August 31, 1914, as per Schedule No. 3.....	122,276.15	
Uninvested Cash on August 31, 1914:		
Eleanor J. Cooper Fund.....	\$ 681.25	
Withington Scholarship Fund.....	82.55	
Davis Scholarship Fund.....	40.00	
Congressional Professorship of English Fund.....	51.52	
Woodbury Hospital Fund.....	3,083.33	
L. M. Tree Hospital Fund.....	74.37	
Susannah A. Chapman Hospital Fund.....	475.90	
Corcoran Endowment Rehabilitation.....	110.00	
	\$4,598.92	
Less Amount Invested.....	3,200.00	1,398.92
Total	\$123,675.07	\$123,675.07

EXHIBIT "M."
SPECIAL FUNDS.
As at August 31, 1914.

	Debit	Credit
<i>Law School Fund:</i>		
Investment of Law School Surplus the income to be used for the benefit of the Law School.		\$2,028.75
<i>H. Y. Denman Fund:</i>		
Bequest of Hampton Y. Denman for the use and benefit of the Law School. Realized from mining securities received under the bequest on distribution of capital of mining companies.		452.65
<i>Mary Emma Jacques Medical and Hospital Fund:</i>		
Bequest of Mary Emma Jacques for benefit of the University Medical School and Hospital. (Being one-half of the total bequest to the University.)		3,845.26
<i>Mary Emma Jacques Law School Fund:</i>		
Bequest of Mary Emma Jacques for the benefit of the University Law School. (Being one-half of the total bequest to the University.)		3,845.26
Total Special Funds at August 31, 1914.		10,171.92
<i>Special Fund Investments:</i>		
<i>Law School Fund:</i>		
Potomac Electric Power Company \$2,000 5% Consolidated Mortgage Gold Bonds due 1936.	\$2,028.75	
<i>Mary Emma Jacques Legacy:</i>		
The Metropolitan Railroad Company \$1,000 5% First Mortgage Gold Bond, due 1925.	1,070.00	
Norfolk and Washington Steamboat Co. \$500 5% Coupon Trust Bond, due 1931.	515.00	
U. S. Steel Corporation \$3,000 5% Sinking Fund Gold Coupon bonds, due 1963.	3,060.00	
Washington Railway Electric Company \$1,000 4% Consolidated Mortgage 50 year Gold Bond, due 1951.	860.00	
Washington Gas Light Company \$1,000 5% General Mortgage 50 year Gold Bond, due 1960.	1,105.00	
Uninvested Cash at August 31, 1914:		
H. Y. Denman Fund \$ 452.65		
Mary E. Jacques Legacy 1,080.52	1,533.17	
	\$10,171.92	10,171.92

EXHIBIT "N."

ENDOWMENT AND SPECIAL FUNDS, INCOME AND EXPENSES.

For the year ended August 31, 1914.

	Balance Aug 30, 1913.		Year ended Aug. 31, 1914.		Balance Aug. 31, 1914.	
	Debit.	Credit.	Expense.	Income.	Debit.	Credit.
Endowment Funds:						
Corcoran Endowment Fund.....	\$	2,448.90	2,448.90	1,305.26	.....	1,305.26
Powell Scholarship Fund.....	.....	3,416.32	1,783.64	158.34	.....	1,791.02
Ordreman Prize Fund.....	.....	196.79	200.00	184.00	.....	180.79
Eleanor J. Cooper Fund.....	.....	1,644.21	884.47	452.90	.....	1,212.64
E. K. Cutter Prize Fund.....	74.85	.....	50.00	145.29	.....	20.44
Elton Professorship Fund.....	.....	743.87	743.87	198.23	.....	198.23
Fitch Prize Fund.....	31.76	.....	.....	10.69	21.07	.....
Walsh Prize Fund.....	.....	53.20	.....	13.59	.....	66.79
National Park Seminary Hos- pital Endowment.....	.....	125.38	.....	22.65	.....	148.03
Davis Prize Fund.....	.....	50.61	20.00	31.70	.....	62.31
Withington Scholarship Fund.....	.....	17.68	.....	17.21	.....	34.89
Davis Scholarship Fund.....	77.99	.....	.....	1.81	76.18	.....
Farnham Scholarship Fund.....	.....	49.60	.....	45.29	.....	94.89
M. M. Carter Scholarship Fund.....	.....	49.60	40.00	45.29	.....	54.89
M. L. Stone Scholarship Fund.....	.....	139.18	80.00	90.58	.....	149.76
Saughton and Elton Prize Fund.....	.....	54.79	.....	22.65	.....	77.44
Ruggles Prize Fund.....	30.00	.....	.....	.....	30.00	.....
Congressional Professorship of English Fund.....	.....	287.93	287.93	285.21	.....	285.21
Woodbury Hospital Endowment.....	.....	76.85	419.30	434.11	.....	91.66
L. M. Tree Hospital Endowment.....	.....	94.44	543.00	452.90	.....	4.34

Chapman Hospital Endowment.....	123.28				123.28
Gardner G. Hubbard Memorial Prize Fund.....	.15	50.00	45.29	4.50	
J. McBride Sterrett Memorial Prize Fund.....	11.03		9.05	206.25	20.08
H. H. Carter Scholarship Fund.....	206.25				
Special Funds:					
Law School Fund.....	101.73	101.73	91.96		91.96
H. Y. Denman Fund.....			20.50		20.50
Mary E. Jacques.....			348.39		348.39
	420.85	7,652.84	4,432.89	338.06	6,382.80
Less Balances.....	420.85	4,432.89			338.06
Net Balances.....	\$9,264.69	\$3,219.95			6,044.74

SUMMARY.

Unexpended Income at August 30, 1913 \$9,264.69

Income for Year:

Endowment Funds:

Income for General Purposes \$1,788.70

Income for Designated Purposes ... 2,183.34

\$3,972.04

Special Funds:

Income for Designated Purposes 460.85

4,432.89

Total \$13,697.58

Expenses for Year:

Endowment Funds:

Expenses for Designated Purposes 7,551.11

Special Funds:

Expenses for General Purposes 101.73

7,652.84

Unexpended Income at August 31, 1914 \$6,044.74

SCHEDULE "1."
IMPAIRMENT OF ENDOWMENT FUNDS.
As at August 31, 1914.

Fund	Impairment principal	Impairment income
Congressional Endowment Fund.....	\$ 63,872.93	\$.....
Poindexter Endowment Fund.....	12,525.56	.....
Forty Thousand Dollar Endowment Fund.....	26,891.46	.....
Elton Professorship Fund.....	10,133.19	.....
Syms Legacy.....	1,500.00	.....
Withington Scholarship Fund.....	1,573.20	.....
Walker Scholarship Fund.....	2,500.00	.....
Morehouse Scholarship Fund.....	1,500.00	.....
Davis Scholarship Fund.....	1,000.00	.....
Powell Scholarship Fund.....		22,272.00
Mary Lowell Stone Scholarship Fund.....		775.38
Ruggles Prize Fund.....	500.00	
Fitch Prize Fund.....	764.00	914.83
Cutter Prize Fund.....		75.14
Walsh Prize Fund.....		126.58
Ordronaux Prize Fund.....	701.53	230.47
Corcoran Endowment Fund.....	189,158.75	
II. H. Carter Scholarship Fund.....	5,000.00	
Total at August 31, 1910.....	\$317,620.62	\$24,394.40
Less:		
Donations for rehabilitation of the Corcoran Endowment Fund:		
February 10, 1913..... \$ 10.00		
October 20, 1913..... 100.00	110.00	
Total at August 31, 1914.....	\$317,510.62	\$24,394.40

SUMMARY OF IMPAIRMENTS

Principal	\$317,510.62
Accumulated Income	24,394.40
	<u>\$341,905.02</u>

SCHEDULE "2."

ENDOWMENT FUNDS REPRESENTED BY INVESTMENTS.

As at August 31, 1914.

Congressional Endowment Fund:

Grant by Congress of land in the District of Columbia to be sold and the proceeds invested; the income "To be applied in aid of other revenues of the said college, to the establishment and endowment of such professorships therein as now are, or hereafter shall be established by the said trustees" \$21,539.00

Elton Professorship Fund:

Bequest of Romeo Elton, to be applied for the foundation of a professorship of mental and moral philosophy 4,375.00

Farnham Scholarship Fund:

Gift of Mrs. Robert Farnham, to establish a scholarship in the College 1,000.00

Maria M. Carter Scholarship Fund:

Gift of Mrs. Maria M. Carter, to establish a scholarship for some deserving young man 1,000.00

Admiral Powell Endowment:

Bequest of Admiral Levin M. Powell of land in the District of Columbia; the income to be devoted as far as the same will go, under such regulations as the trustees or overseers may deem best, to the free education of such young men that may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, etc. 18,923.00

Mary Lowell Stone Scholarship Fund:

Gift of Mary Lowell Stone to establish a scholarship fund to be paid to needy women in the Corcoran Scientific School at the discretion of the dean of said School 2,000.00

Staughton and Elton Prize Fund:

Gift of Rev. Wm. Staughton of \$250.00 to found a prize for the encouragement of classical literature in the Columbian College, to be called the Staughton Prize... } 500.00

Gift of Rev. Dr. Romeo Elton of \$250.00 toward the foundation of a prize fund for the encouragement of classical study in the Columbian College }

Willie E. Fitch Prize Fund:

Gift of James E. Fitch to found a gold medal with the income of said fund to be assigned under the auspices of the projected Scientific School \$236.00

E. K. Cutter Prize Fund:

Bequest of Marion Kendall Cutter to be invested; the income to be applied for the purchase of an annual prize for excellence in the study of English	1,000.00
--	----------

Thomas F. Walsh Prize Fund:

Gift of Thomas F. Walsh; the income to be applied for an annual gold medal in Irish History	300.00
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Ordronaux Prize Fund:

Bequest of Dr. John Ordronaux for the establishment of biennial prizes in the Law and Medical Schools	4,060.97
---	----------

Corcoran Endowment Fund:

Gift of Wm. W. Corcoran to found a permanent fund, of which the interest alone shall be applied for the purposes of the College	\$28,716.17
Donation for the rehabilitation of the Corcoran Endowment Fund	100.00
	<hr/> 28,816.17

Eleanor J. Cooper Fund:

Bequest of Eleanor J. Cooper; the income to be devoted to the investigation of the nature of the malarial poison arising from sewer gas and antidote thereof; to be perpetual	\$9,347.92
Transfer of income to principal account	652.08
	<hr/> 10,000.00

National Park Seminary Endowment:

Gift of the National Park Seminary for the endowment of a bed in the University Hospital	500.00
--	--------

Davis Prize Fund:

Gift of Hon. Isaac Davis to establish a fund; the income to be distributed annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College.....	700.00
--	--------

Woodbury Hospital Endowment:

Bequest of Ellen C. de Q. Woodbury for the reception and treatment of female patients by the Hospital belonging to or connected with the University	9,583.33
---	----------

Laura M. Tree Hospital Endowment:

Bequest of Judge Lambert Tree to establish one or more beds in perpetuity in "The Columbian University Hospital," to be known as the "Laura M. Tree bed or beds"	\$10,000.00
--	-------------

Congressional Professorship of English Fund:

Proceeds from sale of Congressional Grant to be invested and the income applied as shown under Congressional Endowment Fund	6,295.77
---	----------

Gardiner G. Hubbard Memorial Prize Fund:

Gift of Gertrude M. Hubbard to establish an endowment; the income to be given annually to that member of the graduating class who has during four years maintained a high standing in American History..... 1,000.00

J. MacBride Sterrett, Jr., Memorial Medal Fund:

Gift of J. MacBride Sterrett to establish a fund; the income to provide a gold medal, annually awarded to that student taking course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic 200.00

Davis Scholarship Fund:

(Gift of Hon. Isaac Davis to establish a Scholarship Fund, the annual income to be appropriated to some student pursuing his collegiate course in said college.)
Gift of Hadleigh Marsh, reimbursing fund 40.00

Withington Scholarship Fund:

(Subscription of loan to Columbian College for the purpose of endowing a scholarship to be named the Withington Scholarship.)
Proportion of proceeds on settlement of estate of John Withington, deceased 379.93

Chapman Hospital Endowment:

Bequest of Susannah A. Chapman "to be used for the purposes of the free wards of its University Hospital." 1,225.90

\$123,675.07

SCHEDULE "3."

ENDOWMENT FUND INVESTMENTS.

As at August 31, 1914.

Stocks.

American Telephone and Telegraph Co.:	
6 shares of stock	\$708.00

Washington Sanitary Improvement Co.:	
130 shares of stock	1,300.00

Bonds.

Chicago, Rock Island and Pacific Railway Co.:	
\$24,000 4 per cent First and Refunding Mortgage Bonds, due 1934	20,959.17

Chicago, Rock Island and Pacific Railway Co.:	
\$5,000 4 per cent Collateral Trust Bonds of 2002	4,118.75

Chicago, Rock Island and Pacific Railway Co.:	
\$5,000 4 per cent Collateral Trust Bonds of 2002	4,060.97

City of New Brunswick, New Jersey:	
\$3,000 4 per cent Sinking Fund Bonds	3,000.00

City of Medford:	
\$3,000 4 per cent Sewerage Loan Bonds	3,000.00

Potomac Electric Power Co.:	
\$9,000 5 per cent Consolidated Gold Mortgage Coupon Bonds of 1936	8,988.75

Columbia Railway Co.:	
\$500 5 per cent Extension Mortgage Gold Coupon Bonds of 1914	505.63

Potomac Electric Power Co.:	
\$1,000 5 per cent Consolidated Gold Mortgage Coupon Bonds of 1936	1,000.00

Norfolk and Washington Steamboat Co.:	
\$200 5 per cent Coupon Bonds of 1931	208.00

Austen Coal and Coke Co.:	
\$1,000 5 per cent Consolidated Mortgage Gold Bonds of 1926	1,000.00

Washington Railway and Electric Co.:	
\$500 4 per cent Consolidated Mortgage 50-year Gold Bond, due 1951	431.25

Potomac Electric Power Co.:	
\$2,000 5 per cent Consolidated Gold Mortgage Coupon Bonds, due 1936	2,040.00

Potomac Electric Power Co.:	
\$3,000 5 per cent Consolidated Gold Mortgage Coupon Bonds, due 1936	2,996.25
Virginia Railway Co.:	
\$300 5 per cent First Mortgage Gold Bonds, Series "A," due 1962	297.38
Washington Railway and Electric Co.:	
\$4,000 4 per cent Consolidated Mortgage 50-year Gold Bonds, due 1951	3,200.00

Trust Notes.

Thomas R. Marshall Note:	
Note secured by deed of trust on part of lot 5, square 253, and lot 70, block 30, in Columbia Heights	5,000.00
Lewis Spectre Note:	
Note secured by deed of trust on lot 64, square 1017..	200.00
Washington Sanitary Improvement Co.:	
Real Estate Notes as follows: 12 notes of \$1,000 each; 2 notes of \$2,000 each	16,000.00
Wm. S. and Susan L. Dewhirst Note:	
Note secured by deed of trust on lot 9, square 243....	500.00
Agnes Plunkett Notes:	
Notes secured by deed of trust on part of lot 12, square 11, in Meridian Hill	200.00
Alfred Keir Notes:	
75 notes of \$10 each, dated August 10, 1914, secured on lot and building at Hyattsville, Prince George Co., Md.,	750.00

Real Property.

Real Property, 1707 I Street N. W.	18,923.00
Real Property, Burgdorf Lot (Sublot 148, square 672)	1,350.00
Real Property Government Grant:	
Lot 8, square 13	2,565.00
Lot 10, square 13,	2,218.00
Lot 12, square 13	4,588.00
Lot 13, square 13	3,924.00
Lot 9, square 16	2,224.00
Lot 8, square 23	3,055.00
Lot 2, square west of 23	1,069.00
Lot 5, square 87	1,896.00

\$122,276.15*Summary.*

Stocks	\$2,008.00
Bonds	55,806.15
Trust Notes	22,650.00
Real Property	41,812.00
	<hr/> \$122,276.15

George Washington University Bulletin

REPORT OF THE PRESIDENT

Volume XIII, Number 4,

December 1914

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THE GEORGE WASHINGTON UNIVERSITY

Report of the President

WASHINGTON, D. C., December 31, 1914

TO THE CHAIRMAN OF THE BOARD OF TRUSTEES, GEORGE WASHINGTON UNIVERSITY.

SIR: I have the honor to present my report upon the University for the academic year 1913-14 which ended on September 1, 1914, and upon the general affairs of the University to the date of this report.

The prescribed courses in the various departments of the University were carried on from the beginning of the academic year September 24, 1913, until the University Commencement June 10, 1914. The maximum registration in all departments for the year was 1611 students. The largest number of students in attendance at any one time was 1445. These numbers show a marked increase over the numbers of the previous year of 1912-13.

The distribution of the students in the various departments of the University giving the maximum registration in each case was as follows:

School of Graduate Studies.....	92
Columbian College.....	484
College of Engineering.....	204
Teachers College.....	131
Law School.....	355
Medical School.....	175
Dental School.....	80
National College of Pharmacy.....	70
College of Veterinary Medicine.....	39
	1,630
Duplicates.....	19
Total.....	1,611

The death of Mr. Aldis Birdsey Browne, a member of the Board of Trustees occurred on June 1, 1914. I cannot content myself with this simple announcement but must here express my appreciation of Mr. Browne's character and his services

as a faithful member of the Board of Trustees of the University. Notwithstanding his many obligations in various directions, civic, professional and religious, he afforded great aid to the University during the critical days of its history. He represented a fine type of an alumnus of an institution, doing valuable service in later years as one of its trustees.

During the year the following changes occurred in the faculties of the University. On June 15, 1914, Dean Charles Noble Gregory of the Law School resigned to take effect at the end of the academic year. Dr. Harvey W. Wiley, Professor of Agricultural Chemistry in the School of Graduate Studies also resigned, September 19, 1913.

The following appointments have been made during the year: Professor Everett Fraser as Dean of the Law School; Acting Professor E. E. Richardson of the Department of Arts and Sciences, became Professor of Philosophy; Assistant Professors Merton L. Ferson and J. Wilmer Latimer became Professors of Law.

In the Medical School: Dr. Carl Lawrence Davis was appointed Professor of Anatomy; Dr. Edward Rhodes Stitt, Professor of Tropical Medicine; and Dr. William P. Carr, Clinical Professor of Surgery.

On September 25, 1914, of the present academic year Dr. Theodore Nicholas Gill, Professor Emeritus of Zoology, died. The long connection of fifty-three years that Dr. Gill had with Columbian College and the George Washington University renders his death worthy of special note. His whole career was one of scientific distinction bringing in time international recognition.

The mechanical laboratory for the College of Engineering was completed during the academic year under consideration and the necessary machinery duly installed. It has been in constant use since in connection with the Department of Mechanical Engineering of that College and its various allied courses.

The building for the Nurses' Home purchased during the previous academic year having proved insufficient to accommodate the increased number of nurses needed at the hospital and its training school, the adjacent building, 1300 L Street, was purchased and the two buildings thrown into one. The

needs for the accommodation of the nurses for the present and immediate future have thus been met.

The stringent conditions of financial affairs aggravated since my last report by the dislocation of business due to the European war have prevented the completion of the fund partially raised for the clearing off the indebtedness upon the University property. Notwithstanding this we have been obliged to purchase the building, 2025 G Street, adjoining the University on the west, to meet the increased number registered for the present academic year. It is hoped that with improved financial conditions this fund will be fully completed and the purposes accomplished.

The report of the Treasurer of the University which is published as a separate document, shows an improved financial condition over the previous year. There is, however, little to report so far as additional endowments or large contributions to the permanent funds of the University are concerned. I recommend strongly to the friends of the University the question of providing for scholarship endowments and endowments for the various standard professorships of the University. These endowments are fit subjects for memorials to those whose services to the University, to the community, and to the country deserve perpetuation.

The appended reports show the conditions and needs of the various schools of the University. In order to properly appreciate the workings of the various departments of the University it is necessary to understand the peculiar residential conditions existing in the District of Columbia with the embodied Civil Service pertaining to the general government of the United States, which differs in its composition from similar bodies existing in other large countries. With its restricted method of promotion, without any system of retirement or pension, there exists within it a large number of persons with a desire to provide for the future by means of additional education, by the attainment of professions, and to a less degree by the acquirement of technical knowledge for increased usefulness and for accompanying promotion within the limits of the government service.

To this class of students from the Civil Service there is to

be added the large and increasing number of young men and women who come to us as graduates of the high schools of the public school system of the District of Columbia and also those, fewer in number, who reside in Washington and are prepared for college by the excellent private schools of the city and its suburbs. The fact that George Washington University is the only existing non-partisan, non-sectarian university for white people in the District of Columbia appeals in its nine schools and their subdivisions practically to all classes of students.

Columbian College of the Department of Arts and Sciences is the first in importance and number of students of the various schools of the University. It has attained in its last year the greatest registration in its history of ninety-three years. At the present writing in the new academic year it has still further advanced to a maximum registration of 520 students. As there is no summer school attached to the University this represents a solid body of students, young men and young women whose requirements create a constant demand upon us for additional facilities, primarily in teaching, secondarily for additional housing and plant.

By the appended report of the Dean of Columbian College and of the Dean of the Department of Arts and Sciences it can be seen that the primary need for this Department and for the University at large is a provision for a Science Hall with adequate provision for the teaching of Chemistry in lecture halls and laboratories near the Arts and Science building for the students concerned. Such a building could be readily arranged for the accommodation of other scientific departments requiring special laboratories and class rooms, such as Physics and Biology. This building with a proper installation is the most imperative need of the University as to buildings. It would in turn relieve the growing pressure for room in the building containing the Schools of Medicine and Dentistry where at present all chemical laboratories are placed.

I desire also particular consideration to the portion of the report of the Dean of Columbian College in which he calls attention to the preparation afforded for the Consular Service of the United States by this College. The importance of this prep-

aration and the need of a permanence in this service as a most important branch of the government was emphasized by me in my annual report of last year. George Washington University has more men in our Consular Service at the present time than any other university and more than the three universities combined who follow it in numerical strength in the service.

It gives me much satisfaction to call your attention to the fact that the adoption of the budget last June restores the salaries of the permanent professors of the Columbian College to the amount appropriated before the necessary reductions caused by the financial difficulties of the University some years ago. The diligence, fidelity and competency shown by the members of the faculties of the entire University, however, entitle them to yet greater consideration when the state of our finances will permit.

The appended reports of the Law and Medical Schools show a general advance in their stability and standards. The additional requirements for admission to the Medical School of one year of collegiate instruction in compliance with the rules of the American Medical Association necessarily elevates the standards of those who enter and graduate from this School, and the pre-medical class forms a decided addition to the student registration of Columbian College.

The report of Dean Fraser of the Law School shows the superiority in professional acquirements that pertain to the students who have gone through similar or more prolonged courses in collegiate work. This will be a matter for your grave consideration in dealing with the future of the Law School. I commend to your attention the statistics formulated by the Dean of the Law School upon this subject.

I think it wise to call to your notice also the need of a Law School building owned and controlled by the University and conveniently placed for those in attendance upon the law courses. In addition to this need I might refer to the cramped condition of the library of the Arts and Sciences Department which is the main library of the University. It now numbers 38,852 volumes and should be housed in a fire-proof building by itself or in connection with an auditorium of size which is also much needed for the University. The library needs in-

creased facilities for handling the books, and in reading room space. The present condition of the library can be considered only as a makeshift unworthy of the University and of the Capital City.

Finally, in closing, I desire to remark with satisfaction upon the further increase in the registration of the current year at the present writing over that of the last academic year notwithstanding the great advance of the latter over previous years. This enrolment is a decided sign of prosperity so far as those seeking education is concerned, and challenges the alumni and the community about us to respond to this increased demand for collegiate and professional education by generously supplying the University with facilities which will make it, and through it the Capital City of the Nation, a great educational center in all senses of the word. I am

Respectfully,

C. H. STOCKTON, *President.*

November 14, 1914.

ADMIRAL CHARLES H. STOCKTON,
*President George Washington University,
Washington, D. C.*

DEAR SIR: I have the honor to submit the following report in regard to the Department of Arts and Sciences for the session of 1913-14.

The enrollment was as follows:—

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Graduate School.....	72	20	92
Columbian College.....	290	194	484
College of Engineering.....	203	3	206
Teachers College.....	10	120	130
	575	337	912
Duplicates.....	3	4	7
	572	333	905

Compared with the enrollment of the previous year this shows an increase of 127 or 16 per cent, which is surprisingly large. Of the undergraduate students, 234 attended the day classes and 581 attended the late afternoon classes.

The attendance in classes fluctuated considerably during the year, but when allowance is made for changes, the following table shows the average enrollments during the session:

ARTS AND SCIENCES

7

Average Enrollment in Classes

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Applied Mathematics	20			11		11
	21			7		7
	22			9		9
Archaeology	20		16		9	25
	21		5		4	9
Architecture	3			11		11
	4			9		9
	5			1		1
	8			5		5
	20			2		2
	21			5		5
	22			9		9
	24			4		4
	25			8		8
	33			5		5
	39			5		5
	40			1		1
	41			4		4
	41			4		4
	41			4		4
Botany	1	1	6			7
Chemistry	1		42	36	1	79
	2		34	3	1	38
	3		14	3		17
	6		9	16		25
	7		5	20		25
	20		11	1		12
	21		7			7
	23		12	5		17
	24		9			9
	25		10			10
	26	2	4			6
	27	1	8			9
	28		5			5
	28			6		6
	2			8		8
	3, 4			6		6
Civil Engineering	1			6		6
	2			8		8
	3, 4			6		6

Average Enrollment in Classes—Continued

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Civil Engineering—Continued	20			8		8
	21			5		5
	22			8		8
	23			4		4
	24			7		7
Economics	20, 21a		29		6	35
	20, 21b	1	44	1	4	50
	22, 23	2	29		11	42
	26, 27	1	11	5		17
	33		10	6	1	17
	37		12	1		13
	51	5	3			8
Education	20		2		9	11
	21		2		13	15
	22		2		17	19
	23		1		4	5
	24				9	9
	26				13	13
	29		3		9	12
	31				8	8
	32				4	4
	50	3			11	14
Electrical Engineering	1			1		1
	2			7		7
	4, 5			3		3
	7			4	1	5
	21			7		7
	22			5		5
	23			4		4
	24			3		3
	26			4		4
	27			4		4
English	1		38	9	2	49
	2		73	16	9	98
	3		32		4	36

ARTS AND SCIENCES

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Average Enrollment in Classes—Continued

		GRADUATES	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
English—Continued	4		29		5	34
	5		15		3	18
	20		7	1	1	9
	23	1	19		3	23
	26	4	16		17	37
French	1		15	4		19
	2		20	11	7	38
	3		19	3	1	23
	4		11	2		13
	6	1	7		4	12
	6a	1	1			2
	26		7		3	10
Geology	1		16		1	17
	2		18	8	2	28
	20		4		1	5
	Sp.		4		1	5
German	1		6	3		9
	2		16	4	3	23
	3		18	4	3	25
	4	2	19	14	2	37
	5		8			8
	6		8			8
	20		3		1	4
	21		10		2	12
Greek	A		2			2
	2		1			1
	20		1			1
Graphics	1			21		21
	8			10		10
History	1, 2		30	1	4	35
	3, 4		22		7	29
	5, 6		34		4	38

Average Enrollment in Classes—Continued

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
History—Continued	25		17		2	19
	30		26		7	33
	33	2	29		5	36
	54	2	8		4	14
International Law		2	13		1	16
Latin	1		5		1	6
	2		3			3
	21		2		1	3
	22		1		1	2
	50		1			1
Mathematics	3		20	2		22
	4		3	9	1	13
	6		6	10		16
	9		9	10		19
	12		18	31	1	50
	20	2	9	16		27
	21		3	2	1	6
Mechanical Engineering	1			12		12
	6			2		2
	9			5		5
	20, 21			4		4
	22			3		3
	23			3		3
	24			2		2
	28			2		2
Nautical Science	1			4		4
Philosophy	1		22		3	25
	2	1	31	1	11	44
	3		22		6	28
	4	1	29	1	13	44
	20, 21		7		5	12
	24		3		10	13
	27	1	11		1	13

Average Enrollment in Classes—Continued

		GRADUATE	COLUMBIAN COLLEGE	ENGINEERING	TEACHERS COLLEGE	TOTAL
Physics	1		12	28		40
	2		25	11		36
	3		26	1	1	28
Political Science	21	3	22	1	2	28
	20, 25		17		2	19
	56	3	2			5
Spanish	1		27	3	2	32
	2		4			4
Zoology	1		13		2	15
	2	3	7			10
	23	3	1		4	8

The number of class periods a week, the number of students, and the number of "student hours" a week in the various subjects are shown in the following table:

	CLASS PERIODS EACH WEEK	AVERAGE NUMBER OF STUDENTS	"STUDENT HOURS"
Applied Mathematics.....	6	27	54
Archaeology.....	4	34	68
Architecture.....	30	69	164
Botany.....	3	7	21
Chemistry.....	38	259	618
Civil Engineering.....	27	52	178
Economics.....	16	182	449
Education.....	16	110	201
Electrical Engineering.....	22	43	104
English.....	21	304	822
French.....	23	117	349
Geology.....	8	55	110
German.....	23	126	370
Graphics.....	7	31	72
Greek.....	8	4	9
History.....	18	204	526

	CLASS PERIODS EACH WEEK	AVERAGE NUMBER OF STUDENTS	"STUDENT HOURS"
International Law.....	3	16	48
Latin.....	11	15	37
Mathematics.....	21	153	459
Mechanical Engineering.....	15	33	83
Nautical Science.....	2	4	8
Philosophy.....	12	179	285
Physics.....	10	104	276
Political Science.....	8	52	151
Spanish.....	6	36	108
Zoology.....	8	33	91

This gives a total of 366 class periods a week, and these consist of 291 recitations or lectures and 75 laboratory or drawing periods each week. There is, therefore, an average of 60 class periods each day.

An interesting and valuable report in regard to the proper grading of students was prepared during the session by a committee of which Dean Ruediger was Chairman. The importance of giving attentive study to this subject is clearly shown by the following table which gives the total number of term marks reported in each subject, and the percentage of marks in each grade.

	TOTAL NUMBER OF MARKS	PERCENTAGES				
		A	B	C	D	E
Applied Mathematics.....	23	22	17	44	13	4
Archaeology.....	54	20	39	39	2	0
Architecture.....	93	6	29	38	12	15
Botany.....	12	0	0	84	16	0
Chemistry.....	397	5	38	37	16	4
Civil Engineering.....	92	11	22	38	25	4
Economics.....	284	21	34	39	6	0
Education.....	195	8	39	40	13	0
Electrical Engineering.....	65	12	37	31	18	2
English.....	486	46	32	15	4	3
French.....	204	13	36	30	12	9
Geology.....	94	10	54	29	7	0
German.....	220	20	34	26	15	5
Graphics.....	52	20	37	30	13	0
Greek and Latin.....	38	31	26	34	9	0
History.....	327	29	29	24	8	10
International Law.....	27	22	22	41	15	0

	TOTAL NUM- BER OF MARKS	PERCENTAGES				
		A	B	C	D	E
Mathematics.....	281	9	17	21	26	27
Mechanical Engineering.....	46	22	30	11	33	4
Nautical Science.....	8	25	38	12	25	0
Philosophy.....	335	11	17	32	32	8
Physics.....	186	10	19	29	24	18
Political Science.....	80	8	30	52	10	0
Spanish.....	65	31	41	14	11	3
Zoology.....	41	56	17	12	8	7
General Average.....	3705	19	30	29	15	7
Theoretical Average.....		4	24	44	24	4

In the subjects where only a few marks have been given, wide departure from the generally accepted theoretical distribution of marks may be expected, but in the subjects that are taken by a large number of students there are such variations in the distribution of marks as to give serious concern. It is hoped and believed that greater uniformity will be had in the future.

In the undergraduate colleges, 298 students were registered as special students. This was practically one-third of the entire enrollment and a few words in explanation may be desirable.

Our afternoon class hours are so arranged that persons in the government service are able to attend after office hours, and as is well known, we have many such persons as students. While large numbers of these are planning their work so as to obtain a degree, there are many who do not seek a degree, but desire only a wider knowledge along special lines. In most colleges, special students are looked upon as an undesirable class and their admission is discouraged. The situation with us is far different. Our special students, almost without exception, are mature persons, with definite aims, who form a most desirable addition to our classes. Many of them do not feel willing or are unable to give the time that would be required to obtain a degree, but are seeking such improvement in scholarship and such increase in knowledge as their time, and often, their finances, will permit. They are usually well prepared, often are experts in certain lines, and they welcome the opportunity which the University offers to them. Many of them eventually become candidates for degrees, and the administrative officers are united in encouraging and urging them to do so. They form a body of students of which we may be proud.

The growth of our student body brings with it many and serious

problems. On the material side, we are in great need. We need additional rooms for classes and for laboratories, we need larger rooms for some of our large lecture courses, we need additional equipment in our laboratories. In my report a year ago, I called attention to the inconveniences due to having our Chemistry courses given in the Medical Building, nearly fifteen minutes distant from our other buildings. I hope that circumstances may so shape themselves that we may, in the near future, have our work in Chemistry in a building constructed especially for the work and on ground adjoining our main building.

Although now all salaries of the permanent members of the Faculty have been restored to the amounts they received before the reductions were made four years ago, these amounts are less in purchasing power than they were four years ago. I hope that for next year additions of from one to three hundred dollars may be made to the salaries of such men.

We need also, additional men on the Faculty. With many pressing needs, it is difficult to select the most pressing. There is great need of additions in English, in Romance Languages, in History and Political Science, in Economics, and in Engineering. With but small addition to the amounts we now pay to two men who are giving part time as Instructors in Romance Languages we could obtain a man to give full time who would be able to relieve the overworked Professor.

We need additional courses in History, and an additional Instructor there could give part of his time to Political Science. The broad field of Economics cannot be covered by the one full time man, and the two part time men who are now teaching. In Engineering we have great need of a man who can give full time in Mechanical Engineering and make more effective the courses we are now offering in our new laboratory.

I should deem it unwise to recommend increases that are likely to cause a deficit, but later in the session when the financial conditions for the next and succeeding years are more definitely settled, I shall seek opportunity to make more definite recommendations.

Respectfully submitted,

H. L. HODGKINS, *Dean.*

November 14, 1914.

TO THE PRESIDENT OF THE UNIVERSITY.

SIR: I have the honor to render the following report on the School of Graduate Studies.

The total number of students enrolled for the academic year 1913-14 was 92 which is the same as for the previous academic year. In the following table the degrees sought by them is given in comparison with those of the previous year.

GRADUATE SCHOOL

15

	1912-13	1913-14
Students in attendance.....	11	6
Candidates for C.E. degree.....	5	6
Candidates for E.E. degree.....	3	2
Candidates for M.E. degree.....		1
Candidates for S.M. degree.....	21	27
Candidates for A.M. degree.....	27	24
Candidates for D.C.L. degree.....	1	1
Candidates for Ph.D. degree.....	24	27

The total number of degrees awarded in 1913-14 was 22. In the following table the number of each of the degrees awarded is given in comparison with those awarded in the previous academic year.

	1912-13	1913-14
C.E.....	4	3
E.E.....	1	
S.M.....	7	4
A.M.....	8	10
Ph.D.....	3	5
	23	22

The total number of degrees awarded in course to students in this Division of the University since its organization in 1893 up to July 1, 1914, and the number of each kind of degree conferred is shown in the following table:

	1893-1914
C.E.....	27
E.E.....	14
M.E.....	9
S.M.....	108
A.M.....	171
D.C.L.....	1
Ph.D.....	66
	396

The records of the three Doctorate Disputations held during the year, and which constitute the most important official event in all academic life, are as follows:

Twenty-Fourth Doctorate Disputation held September 29, 1913.

Thesis: The Commodities' Clause: A Treatise on the Development and Enactment of the Commodities' Clause and its Construction when Applied to Interstate Railroads Engaged in the Coal Industry. By Thomas Latimer Kibler, A.B., 1904, Randolph-Macon College; A.M., 1908, The George Washington University. Before Martin A. Knapp, A.M., LL.D., Presiding Judge, U. S. Court of Commerce; Honorable John H. Marble,

college rank, like the Naval Academy, which, like it, confer no degrees. Some came from governmental institutions in Europe which prepare for the universities. Some had nearly completed, at this, or some other, University, the requirements for a baccalaureate degree, were in the Senior year, and were regarded by the Dean of the undergraduate division in which they were enrolled, as well as by the Committee directing their graduate studies, as competent to undertake this advanced work. All were mature persons and before admission their preparedness had been inquired into. This practise has obtained in a measure since this Division was inaugurated. To prevent an abuse of this privilege the Trustees have wisely forbidden the conferring of two degrees upon the same student at any Convocation or Commencement.

The conditions warranting admission to candidature for graduate degrees was a fundamental and vital issue at the time the inauguration of this Division was under active and conscientious consideration. As set forth in my published address, "On the Developments and Functions of the Graduate School" in 1895, your Committee recognized that two lines of development were obvious, and that each had been to a degree exploited. (1) That in which the student was given a broader and more extended acquaintance with existing records of human activities and achievements. (2) That in which the student was expected through research to add, by his achievements, to the sum of human knowledge. The first was evidently academically the simplest; it was most readily conformed to undergraduate standards; it was most easily controlled and gauged by formal pedagogical rules; it was most satisfying to those who measure knowledge in the number of time units devoted to an allotted task, and who regard a student body as a military body to be observed as to its "company front," and to be praised for the uniformity of its alignment and the precision of its evolutions. The second was confusing academically for it admitted individuality. It admitted that individuals, who by plodding, persistent effort might memorize the records of achievement and by formal application of discovered rules impart recorded knowledge, could, and often did lack that openness of mind essential to the sympathetic appreciation and comprehension of the desires and needs of mankind; that commendable curiosity which draws one into the by-paths and on to the horizon of the known; and that originality of vision, or that technical skill and resourcefulness, by means of which new problems are solved. It admitted, on the other hand, that men exist who do not readily conform with organizations and yet possess curiosity, originality, resourcefulness, technical skill and persistency in the prosecution of an investigation. Fortunately there also exist men, with adaptability, who also possess these last mentioned characteristics.

Because it was believed that the function of a University was discharged only when it shared in the increase of knowledge through research into original sources, as well as in the diffusion of knowledge

through teaching, and because of the existence of a body of men sufficiently adaptable to preserve the germ of originality while being compelled to submit to formality during their plastic periods, your Committee recommended that your Graduate School be founded as a school of research but at that time and ever since it has been known that many competent and useful researchers have evaded formalism or else have been so circumstanced by fortune, location or vicissitudes as to have been unable to satisfy the conventional undergraduate requirements and provision has therefore been made whereby usefulness to mankind has been promoted while the essential academic proprieties have been preserved.

The problem of correlating academic standards is as difficult as that found in correlating economic and other scientific standards. At the outset institutions whose diplomas would be accepted were determined upon and the list has been added to from time to time. But, wisely, today every applicant is directed to confer in advance with each professor whose instruction he seeks and after that each application is separately presented to and considered by the Faculty, at a called meeting, before the applicant is admitted to candidature. While correlation of the standards of the different American institutions presents difficulties, that of correlating the standards of foreign institutions with ours presents more difficulties. The fact that the institutions of continental Europe are under governmental supervision aids in a measure because a common rule can be made to apply and our difficulties here have in a measure been solved through the aid of the several members of our Faculties who have studied in these institutions. The chief difficulty rests with the institutions of Latin-America and the Orient about which we have less precise information. Yet it is from these institutions that applicants have in recent years been presenting themselves and logically, because of its location and organization, this University should draw graduate students from these sources in constantly increasing numbers.

I have therefore sought through various sources information regarding them and I present the following correspondence relating thereto.

October 9, 1913.

DR. OSCAR T. CROSBY,
Warrenton, Virginia.

MY DEAR CROSBY: For some years past students have been coming to this University from foreign countries and more especially from the Central, the South American and the Oriental countries. This is very desirable but of late they are being sent as candidates for the higher degrees and asking that the baccalaureate degrees conferred upon them by their native institutions be accepted for admission to our graduate courses. We find this difficult because of a lack of intimate

knowledge of the character of the work required in these native institutions.

I am therefore appealing to you as an Alumnus of this University who is about to visit the Oriental countries to investigate on our behalf the collegiate institutions there and to advise us as to what recognition we should give them.

Yours very sincerely,

[Signed] CHARLES E. MUNROE,
Dean, Faculty of Graduate Studies.

WARRENTON, VA., November 13, 1914.

DR. CHARLES E. MUNROE,

Dean, Faculty of Graduate Studies, George Washington University.

DEAR MUNROE: Exigencies of travel prevented a careful investigation of the established courses and standards in oriental colleges. Conversation with a number of graduates of Roberts' College, of the American College at Beirut, and of several Missionary Institutions in Japan and China disclosed a satisfactory general intelligence. One notes also an academic spirit often stronger than that which survives in our own alumni, after a few years absence from our Alma Mater. It is a safe assumption that young men of the Orient or of South America who come to the United States for Post-Graduate work, are inspired with more than the average desire for learning. Therefore they will the more readily make good by unusual effort any deficiencies which may be due to differences of severity or scope in the standards of undergraduate work. As to recognition of degrees of little known Institutions, I would recommend that one of two courses be pursued, depending upon circumstances. If competent supervisors can be found to serve in the country of the intending student, he should be required to pass an examination, prepared by our own authorities. Questions should be so framed as to search the *general information*, the *general open-mindedness* of the student, rather than his detailed knowledge. The examination should be written, in the presence of supervisors. A similar course should be followed if the aspirant presents himself in Washington. If, in either case, the results are satisfactory, a conditional recognition of his degree may then be given. This should be followed by other more detailed examinations from time to time, on papers handed to the student two or three months before the date of examination.

Success in these examinations, and in post-graduate work should be required as a basis for higher degrees. Such a course at once prevents prostitution of our own degrees, and disappointment of sound ambition among youths less favored than our own by home surroundings.

Yours very truly,

[Signed] OSCAR T. CROSBY.

The Faculty of Graduate Studies has believed that competent graduates of professional courses should be encouraged to enroll in the ranks of researchers in order to advance exact knowledge in their chosen professions. With a view to satisfying these desires I took the following action during the past year.

January 23, 1913.

COLONEL W. C. BORDEN, U. S. A.

Dean, Department of Medicine, George Washington University.

DEAR MR. DEAN: From our recent conversations I have gathered that you look favorably upon the instituting of closer relations between the work in Medicine and the work in Graduate Studies in this University and with a view to cementing these relations, I am sending you enclosed a memorandum of a statement which I hope you may deem suitable for presentation in the catalogue of the Department of Medicine.

Yours very truly,

[Signed] CHARLES E. MUNROE,
Dean, Faculty of Graduate Studies.

Through the President of the George Washington University.

GRADUATE DEGREES

Students in the Department of Medicine may, with the consent of the Dean of this Department and the assent of the Faculty of Graduate Studies, become candidates for the degrees of A.M. or S.M. or Ph.D. Such students must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the study of a baccalaureate degree and, in addition to the work demanded in satisfaction of the requirements for the M.D. degree, they must pursue courses of study in a major and two minors approved of by the Faculty of Graduate Studies; present an acceptable thesis; and conform to the other requirements fixed by the Faculty of Graduate Studies. A candidate for the Ph.D. degree must satisfy the Faculty that he can read understandingly, in the original, French and German works pertaining to his special field and after his thesis has been favorably reported on in writing by the professor-in-charge of his major topic and by a co-referee from the Faculty the candidate must successfully defend his thesis in public before a Board of Experts not officially connected with the University.

Graduate work in medical topics is offered in Bacteriology, Chemistry, Histology and Embryology, Pathology, Physiology and Pharmacology and in Preventive Medicine, but, with the exception that the degree of M.D. is given an equal time credit with the A.M. or S.M. degrees to candidates for the Ph.D. degree, credit is given but once for the completion of any University course of study. Furthermore but a single degree may be conferred on a student at any one University function.

In the course of the administration of this office I find myself called upon to advise with professors upon questions of policy or methods of procedure. It is my feeling that my views are proper subjects for Faculty consideration so that if they are acceptable they may be made generally operative. I therefore present here extracts from letters written during the past year.

October 6, 1913.

The Faculty does not prescribe the number of courses in each University subject which the candidate must complete in order to satisfy the requirements for his degree. This is done by the candidate's Committee of which you are Chairman, for "This committee will determine his division of time, study and research among the major and minor topics." I advise that the number of stated courses in any one University Subject be restricted but that in each course the graduate student be assigned topics for research in the libraries and archives. By this means undergraduate and graduate students may properly be allowed to pursue the same class room courses but the graduate student will be differentiated by the additional advanced research work assigned him in this course. Moreover the graduate student should be required to present his results for discussion. He may be required to read his report, or essay, or book criticism before the regular class pursuing the course with him, or before a seminar of graduate students and teachers of the University organized by his professor, as the latter deems best or most convenient.

I desire to impress upon you that the professor is in graduate work given the largest measure of freedom in the direction of his students; that the satisfaction of the requirements by the candidate is not to be measured in time units but by accomplishment; and that the professor is expected to assign the candidate such tasks outside the class room as will develop in the candidate sound methods for using the sources, gathering material, and presenting it, so that he may become cultivated in research.

Permit me to remind you that when your Committee has determined upon the courses that the candidate must satisfy this finding should be filed with the candidate's record in the Recorder's office; and allow me further to remind you that this record in the Recorder's office is always open to inspection by every member of the Committee and by the candidate so that each may be informed as to the requirements fixed and the extent to which they are satisfied.

Yours very truly,

[Signed] CHARLES E. MUNROE,
Dean, Faculty of Graduate Studies.

October 8, 1913.

I enclose two cards. ———

There are however several others whose cards I have or am to send you as students in your topic. Among them is Mr. ——— who desires to change his Major in candidature for the Master's degree from ——— to your subject. This will mean that besides doing much additional work to that required for the satisfaction of a Minor he will be required to make his Thesis in your subject.

I find also that Mr. ——— who last year pursued your subject as a Minor in part satisfaction of the S.M. degree, desires now to continue this topic as a Minor in part satisfaction of the requirements for the degree of Doctor of Philosophy. This requires that he should spend two additional years in study with you. You are the final authority as to what amount of work and what kind of work in your subject would satisfy the requirements. I should expect that you would require him to perfect his technique by preparing material for your lectures and laboratory students and by assisting in the direction of other graduate students who have had less experience than he has had; that you would cultivate his acquaintance with the sources and improve his methods of searching literature by assigning him topics to look up and report upon, or books to review, the results of which you wish for use in your lectures or which you may require him to present to your classes or to a seminar of your graduate students; and that you would eventually require him to present an essay which would embrace a resumé of the literature and the results of a minor research in the laboratory.

Of course it is not expected that you give a course of lectures to a single student, but you can assign him a course of reading in authoritative text-books and require, at your convenience, reports on these which you can discuss in conference with him alone or with classes which you may form.

I hope you may be able to assign work to Mr. ——— and I trust I may have your views on the matters above presented, for I find your subject one that attracts students and I believe that if it becomes definitely organized it will attract many students and will become a source of satisfaction as well as of profit to you. ———

Yours very truly,

[Signed]

CHARLES E. MUNROE,
Dean, Faculty of Graduate Studies.

Respectfully submitted,

CHARLES E. MUNROE,
Dean, Faculty of Graduate Studies.

November 14, 1914.

TO THE PRESIDENT OF GEORGE WASHINGTON UNIVERSITY.

DEAR SIR: I have the honor to present to you the report on Columbian College for the college year 1913-14.

The statistics of student registration for the year are as follows:

Total registration, 484.

The number of regular students, 281.

The classification of these regular students as registered at the beginning of the college year is as follows:

1. "Regular students having to their credit 45 or more hours," 38.
2. "Regular students having to their credit 30 or more, but less than 45 hours," 36.
3. "Regular students having to their credit 15 or more, but less than 30 hours," 64.
4. "Regular students having to their credit less than 15 hours," 143.

Special students, 189.

Auditors, 14.

There was an increase in the registration over that of the preceding year as shown by the following figures:

1912-13 Columbian College, 353.

1913-14 Columbian College, 484.

The educational service done by Columbian College is preëminently for the District of Columbia. Eighty-five per cent of our college registration is of young men and women who are identified with the District of Columbia. Thirty-eight per cent of the Columbian College students entered on certificate from preparatory schools in the District of Columbia. The registration was distributed as follows:

Central High School.....	66
McKinley Manual Training School.....	31
Eastern High School.....	25
Western High School.....	21
Business High School.....	20
Emerson Institute.....	7
Tutor.....	5
Friends School.....	4
Hall-Noyes School.....	3
Y. M. C. A.....	2
Washington Seminary.....	1
Army and Navy Preparatory School.....	1

An analysis of the preparation of special students in Columbian College in 1913-14 shows the following:

Fully prepared for college:		
Students with college degrees.....	18	
Students with advanced standing.....	29	
High School graduates (15 units).....	45	92
Not fully prepared:		
Students having over 12 units.....	13	
Less than 12 units.....	22	
Fitted for special studies they wish to take.....	62	97
Total.....	189	

The educational needs of the city of Washington in the sphere of higher education develop in a perfectly wholesome way a large class of special students. About thirty-three thousand people are under the Classified Civil Service, all of these resting on an educational basis in many classes of a highly specialized and advanced character. College classes afford opportunities for study in preparation for the more advanced requirements of duty in this work. This is the explanation of the large number of special students with full preparation for college.

There are three groups of students in Columbian College that should be specially mentioned. First, students registered for the degree of Bachelor of Science in Chemistry; second, students registered for Pre-Medical courses or regular college courses in preparation for the Medical School; third, students registered under Group IV of the college curriculum emphasizing political science studies in preparation for the Law School, for the Consular Service, or for business and commercial life.

Forty-nine students were registered in 1913-14 for the degree of Bachelor of Science in Chemistry. In recent years the importance of this course has been emphasized by steadily increasing registration. In addition to students so registered there are special students in large numbers in the courses in Chemistry and the subject of Chemistry is of importance also in the various Groups of our college curriculum leading to the degree of Bachelor of Arts. At the present time all the work in Chemistry, class instruction and laboratory work, is given in the building of the Medical School at 1325 H Street.

Certain things should be noted with respect to the location of the Chemistry and its effect upon Columbian College. First, the Medical building is at some distance from the building of the Arts and Sciences at 2023 G Street, causing difficulty in arranging schedules involving work in both places; second, it is an objection to the present arrangement that the general culture work in Columbian College in Chemistry has to be pursued in the professional atmosphere of the Medical School; third, there is need of a lecture course in general Chemistry for Columbian College students given in a morning or early afternoon period. The present hour of 4.50 brings the lecture during the winter months after dark, and this prevents many students, particularly among the

women, from taking their natural science work in this subject. The registration for the degree of Bachelor of Science in Chemistry is very large; the general culture registration in Chemistry, especially among the women students, is relatively small. The importance of the subject in every way suggests the need of a science building with adequate provision for Chemistry in lecture halls and laboratories for the use of Columbian College students, located near the Arts and Science building, and an extension also of the facilities in Chemistry making it possible for all Columbian College work to be done during the early periods of the day.

To meet the higher preliminary requirements for medical education, Columbian College of the George Washington University offers the following courses: A *one-year pre-medical course* satisfying the requirement of the American Medical Association for admission to the Medical School; a *six-year combination course*, consisting of two years in Columbian College and four years in the Medical School, for which the degrees of Bachelor of Science in Medicine and Doctor of Medicine are given; and a *seven-year combination course*, consisting of three years in Columbian College and four years in the Medical School, for which the degrees of Bachelor of Arts and Doctor of Medicine are given.

The one-year pre-medical course was inaugurated during this year, 1913-14. There were fourteen pre-medical students registered this year. There will doubtless be an increasing number of students registering for the one year pre-medical course from year to year. The two-year college course in conjunction with the Medical School, leading to the degree of Bachelor of Science in Medicine, is also likely to be an important curriculum group. All of this work in preparation for the Medical School centers in natural science studies, and it will require enlarged provision in instructors and in classroom and laboratory facilities. The three natural science subjects constituting the one-year pre-medical course, are Chemistry, Physics, and Biology. The importance of this Group in our coöperative educational work with the Medical School, emphasizes further the needs of a natural science building. The Pre-Medical requirement in Biology is at present satisfied by two courses in Zoölogy, a heavier requirement than that specified by the American Medical Association. It is desirable that we should offer rather for the pre-medical students a course in general Biology, planned specifically to meet the requirement.

Political science studies form an important group in Columbian College. These are planned and presented in Group IV of our curriculum for the Bachelor of Arts degree. Many Columbian College men enter the Law School, and this Group furnishes studies which constitute the natural preparation for the professional course in Law. There is a natural correlation between the college and the Law School, which should be fostered by the development of these studies.

The Political Science Group of studies is useful in preparing men for

the American Consular Service. How important this has been is shown in statistics recently made by a graduate of Columbian College, who is now in the Consular Service. The list was compiled from the register of the State Department published November 10, 1913. It includes only those who are, strictly speaking, holding commissions as Consuls General, Consuls, and Consular Assistants. There are three hundred men in this list. Two hundred and nineteen of these are college men. Twenty-eight of this number or about 12.8 per cent received their training at George Washington University. The highest numbers on the list are as follows: George Washington University, 28; the second University, 11; the third University, 9; the fourth University, 8; the fifth University, 7. It appears from this list that George Washington has more men in the American Consular Service than any other University and as many as the next three together. It is a sound college policy to develop and strengthen all courses of study contributory in so important a way to the public service of the Government, to professional studies in law, and to higher and more intelligent conceptions of citizenship.

We should continue to cherish in Columbian College the old idea of liberal culture. Culture is personal and the effects of culture are reached through personal influences. A city college without dormitory life, with the diverse influences of the city always active in the student body, finds the effects of culture more difficult to achieve because of the city conditions. In Columbian College we are relieved from responsibility for students that rest upon college officers in college community life. We need to remind ourselves that while we are conscious of certain advantages in the city conditions, we have need to exert in special ways all forms of personal influence centering in the University that may be made contributory to the cultural influences of the curriculum. Among the personal influences which we should strive to strengthen and refine are the personal associations of members of the Faculty with the students in class and out. The fraternity organizations among the men and women are at their best, the most important auxiliaries to the organized educational work of the college. Educational ideas can be assimilated and made effective in social conferences with students. The need of personal teaching outside of the curriculum has been marked in the last two years by the publication of books intended for members of the Freshman Class in college, placing before them ideas and ideals that the new conditions of college life make important for them to know.

I would recommend for consideration the establishment for the year 1915-16 of a required course of one hour a week for all full-day students in the Freshman Class of Columbian College to be called the Freshman Assembly Lectures, the purpose of which shall be to teach to the Freshman Class things important for general culture outside of the curriculum. I would suggest that these lectures might be given on Tuesdays at 1.45, lasting for one hour. As a suggestion of the scope and purpose

of the work the lectures should be arranged and supervised by the Dean of the College, and should include such subjects as, "The Transition from High School to College," "The Purpose of the College," "The College Curriculum," "Some Student Problems and Responsibilities," "Fraternities and Their Place in College Life." The calendar of these lectures could be filled out, I am sure, through the coöperation of the Faculty, and of others outside of the University who might from time to time be willing to address the students. The required attendance would give us a large assembly. The influence upon the students of such an assembly would be of benefit in the student life, and the opportunity for instruction which such an assembly gives would enable us to secure addresses which up to the present time we have not been able to arrange for. I believe we should seriously attempt to supply in larger measure to our Freshman students cultural influences outside of the curriculum which will interpret and intensify the influences of the curriculum itself.

Very respectfully,

WM. A. WILBUR.

Dean.

November 14, 1914.

ADMIRAL CHARLES H. STOCKTON,

President, George Washington University, Washington, D. C.

DEAR SIR: I have the honor to submit the following report in regard to the College of Engineering for the session of 1913-14:

The total registration for the session was as follows:

Former students of the College of Engineering.....	114
New students.....	86
Students previously registered in other departments of the University.....	6
Total.....	206
Number of men.....	203
Number of women.....	3
	206

These students may be classified as follows:

Candidates for degrees:

	Freshmen	Sophomore	Junior	Senior	Total
Arch.....	3	2	6		11
C.E.....	8	9	18	4	39
E.E.....	12	4	10		26
M.E.....	11	11	9	1	32
	34	26	43	5	108
Special Students.....					98
					206

In years of attendance students are classified as follows:

First year.....	92
Second year.....	55
Third year.....	19
Fourth year.....	21
Fifth year.....	9
Sixth year.....	6
Seventh year.....	4
Total.....	206

Students were admitted to advanced standing on certificates from the following institutions.

University of Michigan
 University of Wisconsin
 Stevens Institute of Technology
 New Windsor College
 Baltimore Polytechnic Institute
 Cooper Union
 Kentucky State University.

Students in attendance held degrees as follows:

3 A.B. from George Washington University
 3 LL.B. from George Washington University
 1 L.B. from George Washington University
 1 M.P.L. from George Washington University
 1 B.S. from George Washington University
 1 B.S. in C.E. from George Washington University
 1 A.B. from New Windsor College
 1 B.S. from Connecticut State College
 1 A.B. from Rock Hill College
 1 LL.M. from National University Law School.
 1 B.S. in E.E. from Cooper Union.

Students were admitted to the Freshman class on certificate from the following schools:

McKinley High School of Washington
 Central High School of Washington
 Emerson Institute of Washington
 Western High School of Washington
 Winchester (Va.) High School
 Lowell (Mass.) High School
 Lowell (Mass.) Textile Institute
 Virginia Polytechnic Institute
 Commercial School, Taganvov, Russia
 Yukon (Okla.) High School

Sullivan (Ind.) High School
 Baltimore Polytechnic Institute
 Montezuma (Cal.) High School
 Columbus Junction (Iowa) High School
 Newark (N. J) High School
 Poughkeepsie (N. Y.) High School
 Bienville (La.) High School
 Bigelow (Ark.) High School
 Missoula (Mont.) High School
 Regents Certificate of New York

The College of Engineering requires fifteen units for admission and only two of these are elective. It specifies that four units of modern languages shall be offered for admission, and as it is possible for a student to graduate from some High Schools without studying a modern language and from any High School after studying a language only two years, conditions in languages are frequent.

There were 21 students admitted with conditions, although 7 of these students presented 15 points for admission.

The conditions imposed were as follows:

	<i>Units</i>
In Languages.....	56
In Mathematics.....	7½
In Physics.....	1
In Chemistry.....	7
Total.....	71½

During the year 19½ units of condition were removed.

The conditioned students had an average of 13½ High School Units to offer, leaving an average of only 1½ units of High School work lacking, while the average condition imposed was 3½ units. This discrepancy is due entirely to the requirement in modern languages.

Because of the large number of students who attend in the afternoon classes and who have duties during the day that may change during the year, there is a certain amount of instability in attendance. Many of the students are married, and home duties frequently necessitate a change of plans during the year. The attendance during the months of the session was as follows:

October.....	182
November.....	181
December.....	177
January.....	176
February.....	172
March.....	166
April.....	160
May.....	158

A very large percentage of the students in engineering attend only in the late afternoon hours, a much larger percentage than in the case of students in liberal arts.

In most cases this is due to the fact that the student is self-supporting, and must work during the day. But in some cases students have obtained work when it might have been possible to attend day classes. Because of our small Faculty and because the majority of our technical instructors give only part time to the University, the classes in technical engineering subjects are largely held only in the late afternoon. This means that a student in the Junior or Senior year finds that practically all of his classes meet late in the day, and he is tempted to obtain employment, and attend only after office hours. While this means he must attend an additional year, it is frequently of benefit to the student as he usually obtains employment in engineering work and is obtaining valuable practical experience.

Yet it is very desirable, from the University standpoint, that we give technical courses early in the day. This will not be possible until we are able to add full time instructors to our Faculty, and be in a position to duplicate some of our Junior and Senior courses.

At the Commencement in June, the following degrees were conferred:

4 Bachelor of Science in Civil Engineering.

1 Bachelor of Science in Mechanical Engineering.

Respectfully submitted,

H. L. HODGKINS,
Dean.

TO PRESIDENT CHARLES H. STOCKTON,
George Washington University.

SIR: I have the honor to present the following report upon the work of Teachers College for the year 1913-14:

Enrollment	1913-14	1912-13
Men.....	9	8
Women.....	122	79
Total.....	131	87

This enrollment shows the phenomenal increase of fully 50 per cent over the preceding year. What special conditions, if any, operated to bring this about, I cannot say. The friendliness of the administrative and supervisory officers of the Washington public schools very likely had something to do with it. The enrollment for the current year bids fair to equal, if not slightly to surpass, that of last year.

Sixty-four of the 131 students were new to Teachers College, although only 49 paid the matriculation fee, the other 15 having paid it before in some other department of the University.

Attendance by months:

November.....	122
December.....	121
January.....	119
February.....	116
March.....	114
April.....	111
May.....	105

Classes of students:

Regular.....	120
Special.....	8
Auditors.....	3
Total.....	131

Admission: Regular students:

Without conditions.....	117
With conditions.....	3

Of the eleven special students and auditors, six were qualified to satisfy our entrance requirements while five were not. This makes a total of only eight persons who could not technically qualify for entrance but these were all nevertheless prepared to profit by the work they took and to be a help rather than a hindrance in their classes.

Preparatory education:

Graduates of a Washington High School.....	84
Graduates of other secondary schools.....	37
Non-graduates.....	10
Total.....	131

Normal School Graduation:

From Washington Normal School, No. 1.....	71
From other normal schools.....	19
Total.....	90

Employment:

Teachers in service.....	104
Other employment.....	10
Full-day students.....	17
Total.....	131

The largest number of full-day students in any one year heretofore has been 10, as compared with 17 last year. The increase in this class

of students is continuing and is showing itself especially in the number desiring observation and practice teaching, subjects that are required of all who have not had successful teaching experience. While previous to 1913-14, three was the largest number in any one year that took practice teaching, five took it last year and eight are taking it this year. Four of these eight are now teaching in the upper grades of the public schools, all of them in places where they are of genuine assistance to the regular teachers.

The permission to do our observation and practice teaching in the Washington public schools, which we have enjoyed in previous years, has been again courteously granted by Superintendent Thurston for this year. But in this line a new opportunity appears to be opening in the St. John's Church Orphanage. Through President Stockton, the Dean of Teachers College has arranged with the Sister at the head of the Orphanage to take charge of the Orphanage school, the teaching to be done by the students taking the course in practice teaching. It looks as if we might here find an opportunity to develop a model elementary school, but as the work is now only on the point of starting it is too early to give a detailed evaluation of the opportunity.

The proper oversight of observation and practice teaching, especially the latter, takes a great deal of time, which I find it difficult to spare from my other teaching and administrative duties. If the Orphanage school develops as it appears to promise, it may become both desirable and necessary in a year or two to engage another full time instructor for the educational work. One duty of this instructor would be to be principal of the model school in the Orphanage. He might, however, also have charge of the work in observation and practice teaching and give other courses in the late afternoon and on Saturday.

One slight change was made in the course of study during the past year. The number of units required for graduation was raised from sixty to sixty-two. This change was deemed advisable because we give two diplomas at graduation, a Bachelor of Arts degree and a Bachelor's Diploma in Education, which were heretofore both earned by the amount of work demanded for the Bachelor of Arts degree alone in standard colleges. This laid us open to the suspicion that our degree might be below par value, a suspicion that our increased requirements operate to remove.

Teachers of experience, however, are not affected by this change, for they are given credit for the courses in observation and practice teaching, counting two units. This seems only just, for the experience gained by class-room teaching, under supervision, should certainly be as valuable as that obtained from our courses in observation and practice teaching.

Respectfully,
W. C. RUEDIGER.

Dean.

November 10, 1914.

November 16, 1914.

TO THE PRESIDENT OF THE UNIVERSITY.

SIR: I have the honor to submit the following report on the Law School for the academic year 1913-14.

The teaching force numbered thirteen of whom five gave all their time to the school and eight were engaged in practice. An instructor in Patent Law was added to the faculty for the first time.

Instruction was given in subjects aggregating 87 semester hours of which 55 were repeated, a total of 142. This was an increase of 4 hours over 1912-13. The full-time instructors conducted 56 semester hours of which 50 were repeated, the part-time instructors 31, of which 5 were repeated.

This instruction was given as follows:

from 7.50	to 8.40 a.m.,	6 hours
9 a.m.	to 12 m.,	55 hours
4.50	to 6.30 p.m.,	81 hours

The early morning classes (7.50 to 8.40) started last year have continued to prove popular. Over 100 students attended one or more of them. This was fully one half the students eligible as the subjects taught at these hours are too advanced for first year students. These classes are elective and are attended chiefly by afternoon students, either from preference for the subjects or to give them an afternoon free.

The total registration for the year was 349 men and 6 women, a total of 355, an increase of 43 over the registration of the preceding year. This increase was almost wholly in the first year class, which was the largest since 1905-06.

The following table shows the registration of the eight largest schools, members of the Association of American Law Schools, in 1911-12 (as shown by the report of the U. S. Commissioner of Education) and in 1913-14 (as shown by their catalogs).

	1911-12	1913-14
University of Michigan, Department of Law.....	793	709
Harvard University Law School.....	809	694
University of Southern California, College of Law..	481	605
Columbia University School of Law.....	417	565
University of Pennsylvania Law School.....	374	374
George Washington University Law School.....	306	355
Northwestern University School of Law.....	309	352
University of Chicago Law School.....	320	348

It is worthy of note that two of these schools show a decrease in attendance, one no change, and that this school stood third in respect to increase, and was sixth in enrollment.

The students registered from the District of Columbia, 44 states,

Hawaii, China, Japan and Mexico. The largest numbers were, from the District 100, Pennsylvania 22, New York 20, Illinois 16, Virginia 14, Iowa 12, Maryland 11 and Massachusetts 11. A complete table showing the geographical source of all students follows:

Alabama.....	2	Nevada.....	1
Arizona.....	1	New Jersey.....	2
Arkansas.....	2	New Mexico.....	1
California.....	3	New York.....	20
Colorado.....	4	North Carolina.....	2
Connecticut.....	8	North Dakota.....	2
Delaware.....	1	Ohio.....	0
District of Columbia.....	100	Oklahoma.....	2
Georgia.....	3	Oregon.....	1
Idaho.....	5	Pennsylvania.....	22
Illinois.....	16	South Carolina.....	2
Indiana.....	3	South Dakota.....	6
Iowa.....	12	Tennessee.....	9
Kansas.....	2	Texas.....	9
Kentucky.....	4	Utah.....	8
Louisiana.....	1	Vermont.....	3
Maine.....	6	Virginia.....	14
Maryland.....	11	Washington.....	6
Massachusetts.....	11	West Virginia.....	2
Michigan.....	4	Wisconsin.....	6
Minnesota.....	5		
Mississippi.....	3	Hawaii.....	2
Missouri.....	9	China.....	2
Montana.....	2	Japan.....	1
Nebraska.....	4	Mexico.....	1

The students were classified, and divided between the forenoon (9 a.m. to 12m.) section and the afternoon (4.50 to 6.30) section as follows:

	a.m. section	p.m. section	total	
Candidates for LL.B. degree	{ First Year..... 34	120	154	297*
	{ Second Year..... 13	62	75	
	{ Third Year..... 9	59	68	
Candidates for LL.M. degree	5	10	15	44
Special (not eligible for degree)	8	36	44	
Total	69	287	356	1

*Less counted twice

355

Attention is called to the relatively small registration in the forenoon sections. All subjects required for degrees are taught in the afternoon, but not in the forenoon. The first year forenoon course is complete but the second year lacks instruction in Common Law Pleading, Evidence and Equity, all necessary to a degree. The result is that the school loses some students from the second year, and others prefer to take their work, since they must take a large part of it, in the afternoon. The third year forenoon section receives instruction in all required subjects except Moot Court, which from its nature is best taught to the class as a whole.

The afternoon sections are approaching the size where further increases will tax the capacity of our halls and lessen the efficiency of the instruction. The forenoon sections on the other hand would be benefited by trebling their numbers, creating an esprit de corps, so evident in the afternoon sections and lacking in the forenoon. These sections are now sufficiently large to call for instruction in all required subjects and this should be the first step in an effort to further increase their numbers. The school could take care of 200 more students in the forenoon sections without any sacrifice of efficiency and without extra expense other than such as is necessary to provide instruction in these three topics of the second year.

The preliminary education of the regular students, candidates for degrees, divides them into three classes of College Graduates, College Undergraduates and High School Graduates. The number and percentages in each of these classes were:

College Graduates.....	113 percentage	36
College Undergraduates.....	78 percentage	25
High School Graduates.....	120 percentage	39

The large percentage of college-trained men is most gratifying. Attention will later be called to their superior scholarship. It is doubtful if any law school which does not require college training for admission has a greater percentage of college-trained men. The following table shows the colleges from which they come.

	Graduates	Under- graduates
Alabama, University of.....	1	
Amherst College.....	1	
Arkansas, University of.....	1	
Asbury College.....	1	
Austin College.....	3	
Bates College.....	1	
Biltmore Forest School.....	1	
Bowdoin College.....	2	
Brown University.....	1	

	Graduates	Under- graduates
California, University of.....	1	
Center College of Kentucky.....		1
Charleston, College of.....	1	
Chattanooga, University of.....	1	1
Chicago, University of.....		1
Chinese National College.....	1	1
Colorado, University of.....	2	
Columbia University.....		1
Cornell College of Iowa.....	8	1
Cornell University.....	4	2
Dartmouth College.....	1	
Drake University.....	1	
Ewing College.....	1	1
Franklin and Marshall College.....		1
Georgetown College.....	16	32
George Washington University.....	1	
Georgia, University of.....	1	
Hamilton College.....	5	
Harvard University.....		1
Heidelberg University, Tiffin, Ohio.....	1	
Illinois College.....		1
Illinois, State University of.....	2	1
Iowa, State University of.....	3	
Iowa State College.....	1	
Johns Hopkins University.....	1	
Kalamazoo College.....	1	
Lafayette College.....	2	
Lehigh University.....		2
Leland Stanford University.....		1
Louisiana State University.....		3
Massachusetts Institute of Technology.....	2	1
Michigan, University of.....	1	
Michigan Agricultural College.....		1
Minnesota, University of.....	1	
Mississippi Agricultural and Mechanical College.....		1
Missouri State Normal School.....	2	1
Missouri, University of.....		1
Montana, University of.....	1	
Nebraska, University of.....	1	
Nebraska Wesleyan University.....		1
Newbury College.....		1
Ogden College, Kentucky.....	2	
Ohio Northern University.....	1	
Ohio State University.....		

	Graduates	Under- graduates
Ohio Wesleyan University.....	1	
Pacific University.....	1	
Paris, University of.....		1
Pennsylvania, University.....	2	6
Pennsylvania State College.....	1	
Pittsburg, University of.....		1
Princeton University.....	2	1
Purdue University.....	1	
Rollins College.....	1	
Southwestern University.....		1
Swarthmore College.....	1	
Syracuse University.....	1	
Texas, University of.....	1	
Utah, Agricultural College of.....		1
Utah, University of.....	1	1
U. S. Naval Academy.....	5	
Valparaiso University.....		1
Vanderbilt University.....		1
Vassar College.....	1	
Virginia, University of.....	1	2
Washington, State College of.....		1
Washington, University of.....	1	
Washington and Jefferson College.....	1	
Washington and Lee University.....	4	1
Wesleyan University.....	1	
Western Maryland University.....	1	
Western Reserve University.....		1
Wisconsin, University of.....	1	2
Worcester Polytechnic Institute.....	3	1
Yale University.....	6	
	117	81
Counted twice.....	4	3
	113	78

A table has been prepared showing the average semester hours carried and scholarship of regular students, candidates for the degree of LL.B., who were examined during the academic year. It shows the record of the whole group, unemployed and employed, groups differing in preliminary education, groups differing in age, groups differing in preliminary education but of like age.

[illegible]

The standard of scholarship maintained is shown by the record that 35.9 per cent of the students were conditioned or failed in one or more subjects, and that only 9.5 per cent made the average grade of A and 13.4 per cent the average grade of B. Of the students of lowest grade fifteen were denied any credit for, and were required to repeat, all work done in the year as a condition of continuing their studies in the school. Of these, eleven have not returned. This elimination of incapable and indolent students is greatly improving the character of the advanced classes.

The better quality of work done by students with outside employment is shown by reference to section 2 of the table. Of the unemployed 43.9 per cent were conditioned or failed, and only 5.6 per cent made A average and 11.2 per cent B average; while of the employed 34.5 per cent were conditioned or failed, and 10.4 per cent made A average, and 14.1 per cent B average. This is probably due to the fewer hours carried by the employed (21.4 as compared with 23.3), their better preliminary education, their greater age, and finally their greater zeal.

The effect of preliminary education on scholarship is strikingly shown by section 3 of table. The college graduates have the smallest percentage of conditions and failures, the highest of A and B grades and the highest average mark. The undergraduates come next in all respects, while the high school graduates' record is particularly poor. Of 94 college graduates, 18 made A grade and of 97 high school graduates but 2 made A grade.

The effect of age is shown in section 4. The best age seems to be 25 to 29. The group 21 to 24 ranks second and the group over 30 third. The group under 20 is markedly inferior. Of this last group of 42 students not one made an A average and only 2 a B average, while one-half of them were failed or conditioned. Reference to section 8 shows that three-fourths of this group had only a high school education.

It had been suggested that the superiority of the college graduates was due largely to their greater age. This led to the tabulation (sections 5 to 8) of the records of the age groups correlated with the groups' preliminary education. These sections show that the college graduates of all groups maintain their superiority over non-graduates but not to the same degree. The best group of all is the graduates 21 to 24 years of age. The non-graduates of the groups 25 to 29 and 21 to 24 show a fair record. The non-graduates over 30 were two-thirds conditioned or failed but the groups were too small to make the average trustworthy. The poorest group in the school was that of high school graduates from 18 to 20. Out of 28 in this group one-half were conditioned or failed. Not one of them made an A or B grade, and their general average was the lowest.

It should be the policy of the school to discover and eliminate the unfit individually and by classes. The faculty committee on student standing takes care of individual cases. It is worthy the attention of the

faculty whether this weakest group should not be eliminated by requiring a year of college work of all candidates for admission under 21. This is the practice of Northwestern University Law School. Many other schools in the Association now require some college work of all candidates for their degrees. The Association has adopted a resolution advising a year of college work. It is likely soon to require it. This school will be in a better position to fulfill the requirement if it takes the first and most necessary step now.

Of the 355 students enrolled 61 either withdrew or were dropped for non-attendance during the year and 46 were graduated. Of the 248 remaining at the end of the year 194 have returned, and of the graduates 9 have returned for further work, making a total of 203 of the year's students enrolled at present.

Some of the withdrawals are for pecuniary reasons. The school has no scholarship or funds to assist students. The establishment of a fund to be loaned to worthy students financially embarrassed is suggested to anyone seeking to put money to good uses.

The degree of LL.M. was conferred on 4 candidates and of LL.B. on 42.

The years of study for the LL.B. degree by the successful candidates were: 3 years by 28; 3½ years by 3; 4 years by 7; 4½ years by 3; 5 years by 1.

The library of the school was increased during the year by 358 volumes, at an approximate expense of \$900. The policy is to purchase only books of permanent value. An effort is being made to complete the State of Reports. The chief items during the year were Missouri Appeal Reports vols. 1-93, Georgia Reports vols. 1-78, and Oregon Reports vols. 1-10. The library is still without the report of ten states to the Reporter System Reports. The total number of books in the library September 1, 1914, was 6203.

The physical equipment was improved by the installation of new benches and chairs. These have added greatly to the comfort and convenience of the students and so to the efficiency of the work. They have justified all expectations. There is need of student's lockers for coats and books. The installation of these would tend to induce the students to keep their books in the school and to study in the library which is conducive to scholarship.

The increasing enrollment raises the serious question of quarters. The enrollment in the afternoon sections is beginning to tax the number and capacity of the halls. The library is cramped and ill-adapted to study. The elevator service is scarcely adequate for 350 students who have little time to get from their offices to the class rooms, and are dismissed so late from classes. If the enrollment continues to increase the next two years at its present ratio the school quarters will be entirely inadequate.

The spirit of the students is excellent. Class attendance is more

regular and there is better preparation for recitations and the desire for scholastic distinction is more evident. The students are responsive to every effort for advancement of the school.

In conclusion I wish to express my appreciation of the kind and helpful coöperation of my colleagues on taking up my new duties.

Very respectfully,

EVERETT FRASER,
Dean, Law-School.

November 13, 1914.

PRESIDENT C. H. STOCKTON,
The George Washington University.

DEAR SIR: I have the honor to submit the following report of the conduct of the Medical School for the fiscal year ending August 31, 1914.

The motive which has dominated the action of the Faculty of Medicine during the past year has been the continuance of its policy to improve and systematize the teaching and the facilities of the School for its students and maintain the expenses of the School within its income.

Due to the increase in size of the dental class, it has been found necessary to purchase considerable additional equipment for the Dental School, install a number of new lockers and construct a new laboratory on the fourth floor.

As reported last year, the Museum has not yet been developed in equality with the library and laboratories. Considerable improvement has, however, been made by the work of Dr. Craig, who is now both Librarian and Curator of the Museum. Quite a number of valuable specimens have been added and this improvement to the laboratory is steadily increasing.

The curriculum for the third and fourth year classes has been rearranged for the past session, thereby increasing the amount of clinical work in our own hospital and decreasing the work in distant institutions.

The past year, like the preceding three years, has shown a steady and gratifying increase in the number of matriculants.

In my first year as Dean, session 1909-10, there were but 15 matriculants: in 1910-11 there were 32; 1911-12, 39; 1912-13 there were 67 and in 1913-14 there were 98. The increase from 15 to 98 is considered excellent.

The number of men in the laboratories during the session 1913-14 taxed our laboratory facilities to their utmost but with the increased requirements for admission for 1914-15 this pressure will be done away with, through the reduction in size of the freshman class.

In conformity with the requirements of the American Medical Association and the Association of American Medical Colleges, one year of

college work in physics, chemistry, biology and a modern language was required for admission after the first of January, 1914. To meet this premedical college requirement, a premedical college year is now being given in Columbian College, in which several students have matriculated.

This connection will tend to bind more closely together the Department of Arts and Sciences and the Medical School in the University, as all high school graduates who intend to study medicine, instead of going directly to the Medical School, must first take a college year and this should bring to Columbian College a considerable number of students from outside as well as from the District.

Students non-resident in the District of Columbia are probably more numerous in the Medical School than in any other Department of the University.

In the classes for 1913-14 twenty-eight states and nine foreign countries were represented.

The geographical distribution of students non-resident in the District of Columbia was as follows:

Geographical Distribution of Students, Medical School, 1913-14

	1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	TOTAL
Colorado.....	1			1	1
Connecticut.....	2	1			4
California.....	1		1		2
District of Columbia.....	23	16	4	3	46
Florida.....			1		1
Georgia.....	1				1
Illinois.....	2	3			5
Indiana.....	1				1
Iowa.....			2		2
Louisiana.....	2	2			4
Massachusetts.....		1			1
Michigan.....			2		2
Minnesota.....	3	1			4
Maryland.....			1		1
Maine.....				3	33
New York.....	16	5	9		2
North Carolina.....			2		3
New Jersey.....	1	1	1		3
Nebraska.....				1	1
Nevada.....	1				1
Oklahoma.....		1	1		2
Ohio.....		3	3	2	12
Pennsylvania.....	4				3
Rhode Island.....	3				3
South Carolina.....	1				1

Geographical Distribution of Students, Medical School, 1913-14—Con.

	1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	TOTAL
Tennessee.....	1				1
Virginia.....	8	5		3	16
West Virginia.....		1			1
Wisconsin.....	1	1		2	4
Washington.....		1			1
Australia.....				1	1
Cuba.....				1	1
China.....				1	1
Canada.....				2	2
France.....		1			1
Porto Rico.....	2	3			5
Panama.....		1			1
Russia.....	1	1			2
Sweden.....	1				1
Total.....	76	48	27	20	171

The wide distribution of non-resident students is particularly gratifying and shows that the Medical School is receiving students from all parts of the United States. This flow of students should now be directed to the Medical School through the Department of Arts and Sciences and if proper standards are maintained and adequate standing before the American Medical Association and other medical and educational bodies is continued, this flow of students from all parts of the United States should as steadily increase in the Department of Arts and Sciences as has the flow of students to the Medical School in the last five years. I am fully convinced that under existing conditions, within five years, from fifty to seventy-five students will be taken into the premedical course in the Department of Arts and Sciences.

The presence of these students should also materially increase the number of regular students in the Department of Arts and Sciences, for students are the best advertisement of a school and non-resident students from one department, returning to their homes, induce other students to come to other departments of a university.

The University conferred the degree of Doctor of Medicine on seventeen students during the past year.

The standing of graduates before State Boards during the past year has been excellent and marks the highest record of successes ever attained by graduates of the Medical School of our University. Of the graduates of the last five years, examined during 1913, there were but

3.2 per cent of failures. But two medical schools in the United States had a larger percentage of successes than ours. These were the University of Minnesota and Rush Medical of Chicago. Among the Medical Schools having a larger percentage of failures than ours were Harvard, Yale, Johns Hopkins, Cornell, College of Physicians and Surgeons of New York and the University of Pennsylvania. Of the graduates of 1913, examined in 1913, there was not a single failure.

Altogether, the past year gave an excellent financial showing for the Hospital, in that it cleared \$2739.27 above all expenses, after the purchase of an addition to the Nurses' Home at a cost of \$8,000.00, of which \$3,000.00 was paid down.

One of the most gratifying improvements to the Hospital has been the satisfactory establishment of an adequate Nurses' Home. The first building was purchased in May, 1913, at a cost of \$12,000.00. Five thousand of this was paid down, of which \$1,500.00 was contributed by the Board of Lady Managers. This left an indebtedness of \$7,000.00 upon the property with an interest obligation of \$350.00. In November, 1913, the house immediately adjoining the Home, 1300 L Street, was purchased at a cost of \$8,000.00 of which \$3,000.00 was paid down. Of this, the Board of Lady Managers contributed \$1,000.00, the remainder being paid from the Medical School Surplus. The Board of Lady Managers has adopted the policy of turning in all moneys received by them in excess of the annual dues, toward paying off the indebtedness of the Home. In this connection it should be stated that the Board of Lady Managers has worked most faithfully and energetically toward raising money for the Home and the University and Medical School are very greatly indebted to this most liberal body for their able assistance.

In spite of the increased expenses incident to improving and increasing the facilities of the Medical School during the fiscal year of 1913-14, the Medical School, including the Dental School and the University Hospital, all of which are considered a unit, succeeded in meeting all obligations and after transferring \$3,000.00 for the purchase of a Nurses' Home, of which \$1,000.00 was contributed by the Board of Lady Managers, and deducting the uncollectible accounts of the Medical School and Hospital for 1913, made a saving of \$4,674.89. On account of the increased expenses for the employment of full time professors and the decrease in attendance to be expected in 1914-15 due to advancing the entrance requirements, the Medical School and the Hospital will probably not show as large a surplus for next year.

In connection with the financial summary of the Department of Medicine, including the Dental School and Hospital, I feel it proper to call your attention to the greatly increased facilities offered by these Institutions due to careful expenditure of available moneys.

In the last four years, the Medical and Dental Schools and the Hospital have been so greatly improved that they bear little resemblance to these Institutions as they were five years ago. This is especially

true of the laboratories and the quality of instruction given. We now have laboratory instructors who, by giving their full time to the work, give a better quality of instruction than ever before.

The Hospital has been transferred from an almost unusable building, to its present neat, clean and efficient condition.

The present great need of the Department of Medicine is increased clinical facilities under its own control.

Attention must also be called to the probably future increase in numbers in both the Medical and Dental Schools. The Dental School has increased from 28 students in 1909-10 to 97 at this writing.

As already reported to you, this increase has severely taxed the capacity of the Medical Building and the time is not far distant when this pressure will be so great, that additional room for work, especially for the dental students, will be required.

This increase, together with the increase in numbers in the undergraduate departments of the University, is bringing forward a condition which will have to be met by providing elsewhere for the chemistry part of the academic teaching.

Very truly yours,

M. H. BORDEN.
Dean, Medical School.

November 10, 1914.

ADMIRAL CHARLES H. STOCKTON, LL.D.,
President of George Washington University.

DEAR SIR: I have the honor to submit to you the annual report of the Dental School.

		<i>In attend- ance</i>
Number of matriculants 1914-15, 103.		
Number of matriculants Freshmen.....	53	47
Number of matriculants Juniors.....	27	27
Number of matriculants Seniors.....	22	22
Special.....	1	1
	<hr/>	<hr/>
	103	97

The registration of students for 1913-14 was as follows:

First year	40
Second year	22
Third year	18
	<hr/>
	80

The present laboratories are taxed for space for the accommodation of the classes. With certain alteration in view we shall have sufficient space for several years. In view of the healthy growth of this school I hope the University will be prepared to give this school the entire fourth floor of the Medical School building—when it is necessary for this school to request more space. The object of asking for this entire floor is for the purpose of having all the laboratories and the infirmary on the same floor to facilitate teaching.

I have been informed by the District of Columbia Board of Dental Examiners that this Institution stands either third or fourth on the list of Dental colleges in the United States whose graduates have taken the examinations of the various states. This fact alone is an evidence to show the good work this faculty is doing—it is also a very strong evidence that men can be taught dentistry in the afternoon and evening. To my mind it is not the time of day—but the quality of student and teachers that counts.

Very respectfully,

J. ROLAND WALTON,
Dean.

C. H. STOCKTON,
President, The George Washington University, Washington, D. C.

DEAR SIR: Agreeably to your request of the twenty-fourth I wish to present the following report of the work in the College of Pharmacy during the academic year 1913-14.

The total number of students admitted for full and special courses was seventy-nine (79). When the session closed in May 1914 seventy (70) were in attendance and had qualified for examinations.

The freshman class numbered twenty-three (23): males, twenty-one (21), females, two (2). The junior class numbered twenty (20): males, nineteen (19), females, one (1). The senior class numbered twenty-three (23): males, twenty-two (22), females, one (1). Taking special courses there were four (4); males, four (4). Found qualified for graduation, eleven (11): males, ten (10), females, one (1).

As the session progressed the greatest loss of students occurred in the freshman class, five (5) inclusive of two (2) students admitted on conditions. In the junior class two (2) left, in the senior class two (2), making a total of nine (9). The various causes given for leaving did not in any way reflect on the work that the School was doing. The number of students admitted to the freshman class on entrance conditions was twelve (12); two (2) left, two discharged their conditions, eight (8) remain.

Junior students producing certificates from reputable schools showing that they had completed a specified amount of work and who were enrolled as regular students numbered five (5).

The final examinations held in May 1914 resulted in twelve (12) freshmen advanced to the junior class and seven (7) of the same class were required to repeat one or more branches of the freshman course. Fifteen (15) junior students were advanced to the senior class without conditions and four (4) were required to repeat one or more branches of the junior course.

The educational requirement for admission to the College was based on a completed two year course in high school or its equivalent. It was found that the educational deficiencies of the students admitted on conditions varied from two to four units. After a longer or shorter attendance on the courses many of them dropped out while a few are attempting to discharge their conditions.

There was one change in the Faculty, Dr. Henry H. Hazen was appointed to the chair of Materia Medica and Toxicology made vacant by the death of Dr. Samuel Waggaman.

The equipment of the School and supplies of material required by students in their laboratory work has been maintained to the fullest requirement of the classes.

The effect of the operation of progressively increasing higher educational standards for admission to the School of Pharmacy will be appreciable in the probable reduction of applicants for admission and in a better quality of students. It is reasonable to say that there will be a decided decrease in the number of applicants desiring to enter on conditions and as the knowledge of the entrance requirements becomes more generally appreciated the number of matriculants will show a corresponding increase. All of which is respectfully submitted.

H. E. KALUSOWSKI,
Dean.

TO THE PRESIDENT OF THE UNIVERSITY,
The George Washington University, Washington, D. C.

SIR: I have the honor to submit a report of work covered during the academic year 1913-14.

The enrollment of students for that year was as follows:

Seniors.....	18
Sophomores.....	10
Freshmen.....	7

This being the third year of the four-year school term, no junior class was in session.

The entire senior class was graduated at the regular closing exercises and many of them are engaged as Federal Inspectors in the United States Bureau of Animal Industry, having passed a rigid civil service examination for appointment to the same. In this connection I might mention

that of the number of graduates taking this examination throughout the whole United States, three members of this class ranked numbers one, two and four respectively. Taking into consideration the fact that representatives from practically every veterinary college in the country, including the various state colleges and universities, participated in this examination, the excellence of the course of instruction is apparent. All graduates taking the examination to practice veterinary medicine in the District of Columbia were successful in passing the same.

The most harmonious relations continue to exist between this college and the members of the faculty of the University proper under whom a portion of the work is given, viz: Histology, Embryology, Chemistry, Bacteriology and Pathology, and to the gentlemen in charge of these subjects full credit is due for the thoroughness of the course of instruction and the interest shown in the veterinary students.

Very truly yours,

D. E. BUCKINGHAM,
Dean.